

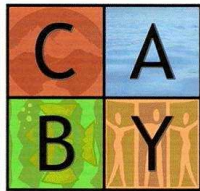
Cosumnes American Bear Yuba  
Integrated Regional Water Management Plan

Proposition 84 IRWM Grant Program  
Planning Grant

Prepared for  
California Department of Water Resources  
Division of Integrated Regional Water Management  
Financial Assistance Branch  
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Cosumnes, American, Bear & Yuba River  
Integrated Regional Water Management

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## BACKGROUND

CABY members first came together in 2006 to develop an IRWMP that would respond to the needs of the region and meet the criteria of the Proposition 50 IRWM Plan Standards. The current IRWMP was finalized and adopted in 2007. The IRWMP was designed as a living document to be updated over time so that it could continue to respond to the evolving needs of the region, as well as anticipated periodic updates required by DWR. As anticipated, the document has been updated to include new projects and to reflect changes in the governance structure (described further below). The updates and processes described in this proposal will result in a comprehensive update of the IRWMP that not only complies with the Proposition 84 Plan Standards but also provides guidance for effective project development, responses to climate change and expanded collaboration and coordination across the CABY region. Within the CABY community, the IRWMP is seen as much as a catalyst for process and consensus building as it is a planning document.

### CABY REGION

The CABY planning region comprises the four watershed boundaries of the Cosumnes, American, Bear, and Yuba Rivers (see Figures i-1 and i-2, below). The eastern boundary of the region is specifically defined by the headwaters of the four rivers at the crest of the Sierra Nevada. While the western boundary is defined by the transition zone to the Central Valley floor; the north and south boundaries are defined by the Yuba and Cosumnes watersheds, respectively.

The CABY upper watershed planning region was defined by the resource issues unique to the Sierra Nevada; the water supply infrastructure connectivity between watersheds on the western slope; and the desire of water suppliers, power producers, watershed groups, and NGOs to work together to develop a regional water management plan.

From a watershed perspective, CABY's northern, eastern, and southern boundaries are coterminous with the watershed boundaries of the Cosumnes, American, and Yuba Rivers. These rivers are included in the planning area from their source in the high Sierra to the point at which they exit the foothill region and enter the flat valley region. The western boundary follows the 400-foot elevation line, creating a purposeful delineation between upper and lower watersheds.

The CABY IRWMP region borders were based on the similarities in the physiography of the watersheds, socioeconomics, hydrology, geology, hydrogeology, water storage and delivery infrastructure, and land use. The area also has similar or closely related policy issues and management entities. In addition, water purveyors within the CABY region are closely linked by water delivery infrastructure. Through pipes, canals, reservoirs, lakes, and pumps, water from NID in the northernmost watershed of the planning area can be delivered to EID in the south. This makes CABY a man-made "watershed" in and of itself. Operational policies and decisions by each water agency, along with stakeholder interests and regulatory and federal land management agencies, affect the entire CABY watershed region.

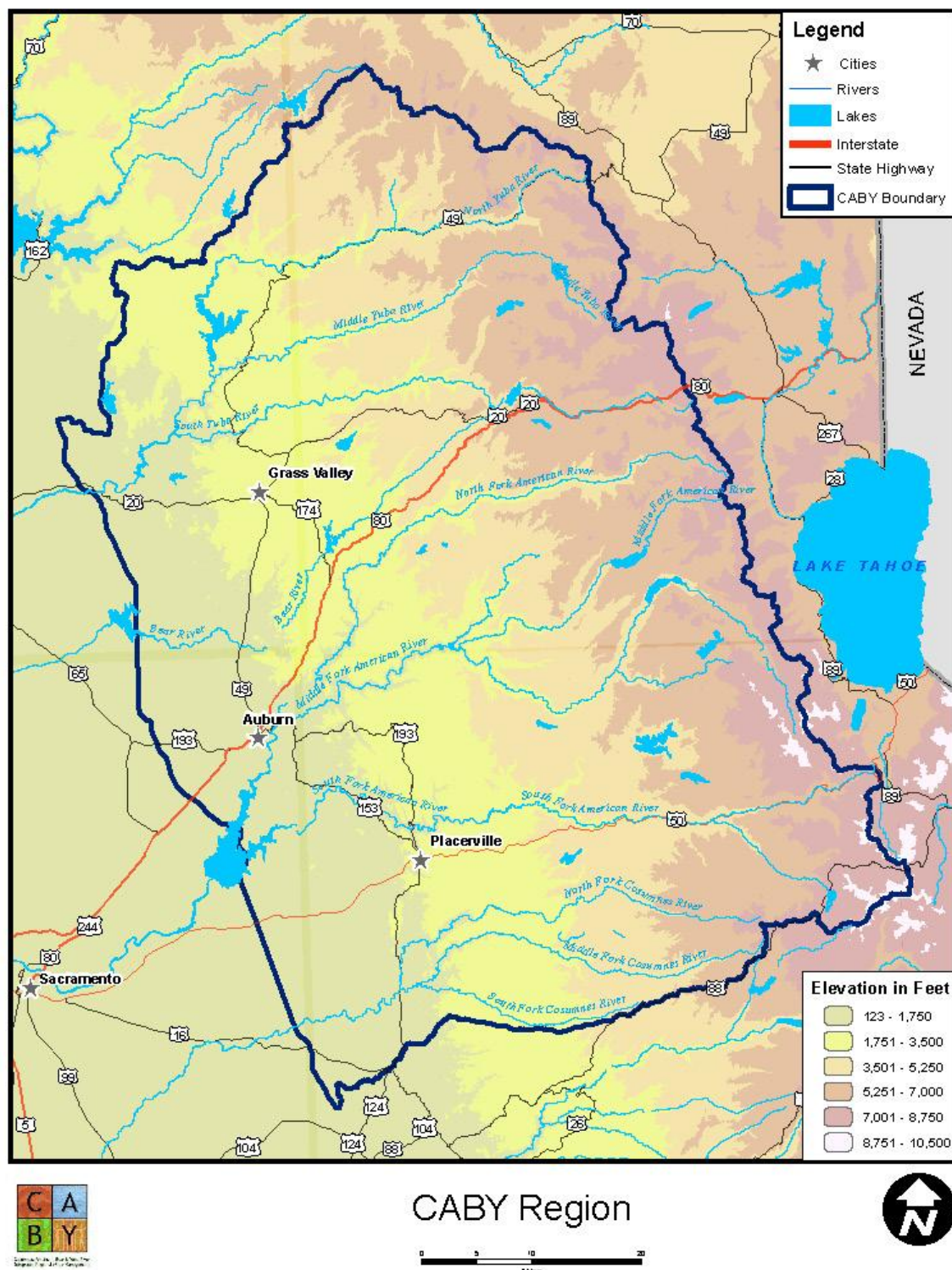


Figure I-1



Three of CABY's water agencies (EID, NID, and PCWA) draw on at least two of the rivers each for supply, co-managing that surface water supply with the neighboring water agency. The fourth CABY water management agency, El Dorado County Water Agency (EDCWA), does not draw water, but manages the water resources of El Dorado County. Extensive infrastructure exists to divert water between watersheds within the CABY region. The extensive infrastructure utilized by NID, PCWA, and EID, as well as by the smaller purveyors and DACs within the region, includes natural channels (the South Fork American River, Weber Creek, etc.), manmade systems (the historic gold-mining canals and flumes, modern pipelines, etc), and an array of pumps and treatment facilities.

Because of this interconnected relationship, the CABY watershed region is also the logical delineation for combining management and conservation efforts in the IRWMP. The connection between water purveyors and the interlinked nature of water infrastructure in the CABY IRWM region, synergistic planning by multiple agencies and the opportunity to maximize the positive effect of regional planning is a definite advantage of the identified CABY region. The inclusion of non-profit groups, state and federal agencies land management agencies, citizen stewards, business interests, indigenous populations and recreational organizations ensures the breadth and sustainable nature of management priorities and decisions as related to water supply reliability, water quality, and environmental stewardship.

The CABY IRWMP boundaries were approved through DWR's Region Acceptance Process in the fall of 2009.

#### **IRWMP ACTIVITIES TO DATE**

The CABY IRWMP addresses the long-term water needs of all the primary stakeholders in the region, and the planning process included a concerted effort to engage all the stakeholders within the region to participate in IRWMP development and implementation. As a result of this effort, most of the stakeholders in the region with responsibility for, or interests in, water management issues are represented in the CABY decision-making structure.

During the development of the IRWMP, approximately 30 organizations representing water agencies, agriculture, counties, power producers, conservation groups, state and federal land management agencies, watershed collaboratives, business owners, tribes, disadvantaged communities, utilities and recreation enthusiasts met monthly to develop the IRWMP. This collaborative effort has continued and participation in ongoing IRWM planning and implementation remains strong. To date, 41 organizations have adopted the CABY Plan. Since 2007, the organization has been staffed by a consulting team and funded entirely by the four regional water agencies.

#### **REGIONAL WATER MANAGEMENT GROUP**

CABY initiated the creation of a governance entity as part of the initial IRWMP development effort. A memorandum of understanding (MOU) was developed in 2007, which formalized the regional entity. This MOU also provides a management structure that assigns decision-making authority to the Planning Committee (PC) and day-to-day management to the Coordinating Committee (CC).

### LEVELS OF PARTICIPATION

In order to ensure organizational diversity, consistent participation, and effective management, the stakeholders who formed the initial CABY RWMG in 2006 drafted a charter to formalize the group's structure and protocols for decision making, membership, and communication. This charter remains the foundation for the MOU-based group. This structure includes five primary categories of participation: interested parties, IRWMP adoptees (or CABY Members—see Table i-1, below), Planning Committee, Coordinating Committee, and work groups. This organizational structure is explained below. The CABY non-profit corporation is a new addition to this structure and is also described below.

**TABLE I-1  
CABY IRWMP ADOPTEES**

American Basin Council of Watersheds	American River Recreation Association
American River Watershed Group	American River Watershed Institute
American River Conservancy	American Rivers
Bear River Watershed Group	California Outdoors
City of Colfax	City of Nevada City
County of Placer	Dry Creek Conservancy
El Dorado County Resource Conservation District	El Dorado County Water Agency
El Dorado Irrigation District	Fire Safe Council of Nevada County
Friends of Deer Creek	Georgetown Divide Public Utilities District
Georgetown Divide Resource Conservation District	Gold Country Fly Fishers
Grizzly Flats Community Services District	Mountain Counties Water Resources Association
Natural Heritage Institute	Nature Conservancy
Nevada County Resource Conservation District	Nevada Irrigation District
North San Juan Fire Protection District	Northern CA Council Federation of Fly Fishers
Placer County Resource Conservation District	Placer County Water Agency
Protect American River Canyons	Save Auburn Ravine Salmon and Steelhead
Sierra Club Mother Lode Chapter	Sierra Nevada Alliance
Sierra Fund	South Yuba River Citizens League
Tahoe National Forest	Upper American River Foundation
Washington County Water District	Wolf Creek Community Alliance
Yuba / Bear Watershed Council	

### INTERESTED PARTIES

Interested parties receive all CABY meeting notices and materials, attend meetings (in some cases regularly), participate in discussions, and are invited to participate in CABY project development activities. They do not, however, participate in the formal decision-making process of the organization. All interested parties are encouraged to adopt the IRWMP in order to become a CABY member.

#### *IRWMP ADOPTEES (OR CABY MEMBERS)*

Generally, a member organization that has adopted the IRWMP identifies a representative (and an alternate) to participate in CABY meetings and other activities. Similar to interested parties, adoptee representatives can and regularly do attend meetings regularly and participate in discussions and project development activities. An important distinction from “interested parties” is that adoptees may independently submit projects to CABY for possible integration into the IRWMP.

#### *PLANNING COMMITTEE*

The Planning Committee (PC) is CABY’s decision-making body and thus the functional Regional Water Management Group (RWMG). PC members have made a good faith effort to achieve consensus while implementing the IRWMP with the strongest support possible. Members have participated in quarterly meetings, and directed IRWMP-related activities. Members have also participated in issue-specific work groups (discussed in further detail below). These activities will continue through the IRWMP update process.

PC members represent diverse interests across CABY’s four watersheds, including all four major water purveyors with jurisdiction in the planning area, nine conservation groups, three county representatives, a regional representative, three watershed collaborators, three small rural water purveyors, one tribal chairperson, three recreational/business interests, two national forests, and six agricultural representatives (see Table i-2, PC Members and Participation). This mix of representatives is intentionally diverse. Adoption of the IRWMP does not equate to automatic participation in the PC. In an effort to maintain a balance of interests, the group determined early on that the PC membership should serve to balance the representation of regional interests. If an organization or individual that is not well represented on the Planning Committee adopts the IRWMP, then they have the opportunity to become a PC member following determination by the PC.

#### *COORDINATING COMMITTEE*

The Coordinating Committee (CC) was established to assist CABY staff with a variety of activities on a regular basis. The CC’s primary responsibilities were to assist with technical proposals, process planning and modifications, plan updates, communications to the stakeholder group in the region and beyond, and other issues for which staff needs advice between PC meetings. The CC, at the request of the PC, played a role in the development of the IRWMP and continues to assist with Plan implementation activities, including preparation of substantive proposals; however the CC has no decision-making authority.

The CC will be dormant for the duration of the update process. The duties previously undertaken by this group will be the responsibility of a new management committee. This committee will be convened to oversee the planning grant agreement (see description of non-profit corporation, below). Individual CC members have expressed a desire to participate in issue-specific subcommittees, so their participation will simply shift in focus.

## *WORK GROUPS*

Three work groups (composed of PC members as well as interested parties) were convened during IRWMP development to assist the PC in identifying goals, objectives, and actions. New work groups are convened when necessary to focus on such topics as resource or water management, project development, data management, and strategic planning. The project development work groups are integral to the creation of large-scale multi-stakeholder, multi-objective projects that focus on region-wide issues such as fish passage, working landscapes, and water supply. These work groups are currently working to support CABY's annual plan update process. Additional work groups will support the update process described in the work plan below. The existing work groups have expressed a desire to expand the process to include inter-work group collaborations aimed at creating the next level of integration for CABY projects. As discussed in Task 10, Project Development, the inter-work group integration function will be accomplished by implementing a semi-annual workshop, which will bring all of the working groups together to present the results of their work and to identify opportunities for integrating projects between work groups.

**TABLE I-2  
PLANNING COMMITTEE MEMBERS AND PARTICIPATION**

<b>Water Agencies</b>			
<b>Member</b>	<b>Representative</b>	<b>Level of Participation</b>	<b>IRWMP Adopted?</b>
El Dorado Irrigation District	Dave Eggerton, senior deputy general counsel	Planning Committee and Coordinating Committee	Yes
El Dorado County Water Agency	April Naatz, interim general manager Tracey Eden-Bishop, water resources engineer	Planning Committee and Coordinating Committee	Yes
Placer County Water Agency	Andy Fecko, resource planning administrator	Planning Committee and Coordinating Committee	Yes
Nevada Irrigation District	Ron Nelson, general manager Tim Crough, assistant general manager	Planning Committee and Coordinating Committee	Yes
<b>Conservation Groups/Non-Governmental Organizations</b>			
American Rivers	Steve Rothert, California field office director Elizabeth Soderstrom, senior director of conservation	Planning Committee and Coordinating Committee	Yes
Sierra Nevada Alliance	Bill Center	Planning Committee and Coordinating Committee	Yes
South Yuba River Citizens League	Jason Rainey, executive director	Planning Committee and Coordinating Committee	Yes
The Sierra Fund	Carrie Monohan	Planning Committee and Coordinating Committee	Yes
American River Watershed Institute	Otis Wollan	Planning Committee	Yes
Protect American River Canyons	Gary Estes	Planning Committee	Yes
The Sierra Club	Alan Eberhart	Planning Committee	Yes
<b>Counties</b>			
Placer County	Edmund Sullivan, senior planner	Planning Committee	Yes
Nevada County	Nathan Beason	Planning Committee	Plans to adopt

**TABLE I-2**  
**PLANNING COMMITTEE MEMBERS AND PARTICIPATION**

<b>Member</b>	<b>Representative</b>	<b>Level of Participation</b>	<b>IRWMP Adopted?</b>
El Dorado County	Pierre Rivas Christine Mearse	Planning Committee	Working to adopt
<b>Regional Entities</b>			
Mountain Counties Water Resources Association	Jim Chatigny, interim executive officer	Planning Committee	Yes
<b>Watershed Collaboratives</b>			
American River Watershed Group	Bill Templin, watershed coordinator	Planning Committee	Yes
Bear River Watershed Group	Lesla Osterholm, watershed coordinator	Planning Committee	Yes
Yuba-Bear Watershed Council	Lesla Osterholm, watershed coordinator	Planning Committee	Yes
<b>Tribes</b>			
Tsi-Akim Maidu	Don Ryberg, chairman	Planning Committee	No
<b>Recreation</b>			
American River Recreation Association	Bill Center	Planning Committee	Yes
California Outdoors	Nate Rangel	Planning Committee	Yes
Northern California Council, Federation of Fly Fishers	Frank Rinella	Planning Committee	Yes
<b>Agriculture</b>			
El Dorado County	Bill Stephens, agricultural commissioner	Planning Committee	Working to adopt
Apple Hill Growers	Kirk Taylor	Planning Committee	Yes
Georgetown Divide Resource Conservation District	Mark Egbert	Planning Committee	Yes
El Dorado County Resource Conservation District	Mark Egbert	Planning Committee	Yes
Nevada County Resource Conservation District	Lesla Osterholm	Planning Committee	Yes
Placer County Resource Conservation District	Rick Gruen	Planning Committee	Yes

## CABY NON-PROFIT CORPORATION

While the MOU-based governance framework has proven to be effective and durable, the long-term sustainability of the organization required a more diverse and flexible funding mechanism. As a result, in June 2009, the PC established the CABY Regional Water Management Group non-profit corporation (dba CABY). While the name of this non-profit includes the words “Regional Water Management Group,” the PC remains the functional RWMG for CABY (as explained above). The CABY non-profit is the applicant for this planning grant proposal, but the PC will remain the functional RWMG for the IRWMP update activities.

The board of directors for the CABY non-profit (see Table i-3) will direct the administration of the planning grant, if awarded by DWR. The Planning Committee as it currently exists will remain the decision-making body for IRWMP implementation and related activities. In addition, a management committee will be convened, designated by the PC during the negotiation of the agreement with DWR. The committee will be ready to commence upon finalization of the agreement. This new management committee will assist CABY staff with the day-to-day aspects of contract administration.

TABLE I-3 CABY NON-PROFIT CORPORATION BOARD OF DIRECTORS	
<b>Group 1 – Local Governmental Organizations</b>	Ron Nelson, Nevada Irrigation District, Interim President
	Lesa Osterholm, Nevada County RCD
	David Eggerton, El Dorado Irrigation District
	<i>Vacancy left by departure of El Dorado County Water Agency representative. To be filled in January 2010.</i>
<b>Group 2 – Local Non-Governmental Organizations</b>	Bill Center, Sierra Nevada Alliance, Secretary/Treasurer
	Steve Rothert, American Rivers
	Frank Rinella, Federation of Fly Fishers
	Carrie Monohan, The Sierra Fund

## STAKEHOLDER INVOLVEMENT

Piecemeal planning constrains the range of potential solutions to the CABY region’s most pressing conflicts and increases the potential for competition among managers and user groups. As a result, those involved in the IRWMP development and implementation process have made a concerted effort to include and engage the many diverse stakeholders within the region to participate in IRWMP activities. CABY members and staff have conducted ongoing outreach and education to a variety of organizations throughout the region both during and after the creation of the initial IRWMP document. CABY members and staff continually outreach to stakeholders, to intentionally invite them into IRWMP processes and also through attendance at meetings outside the IRWMP venue. Task 3 in this work plan describes the

stakeholder outreach activities necessary to expand DAC and EJ stakeholder involvement to ensure meaningful participation from these constituencies.

### DISADVANTAGED COMMUNITIES (DAC)

There are 12 communities in the CABY region that qualify as DACs (see Table i-4, Disadvantaged Communities in the CABY Region).

TABLE I-4 DISADVANTAGED COMMUNITIES IN THE CABY REGION <sup>1</sup>		
Community	Population	Median Household Income
Alleghany	106	\$ 30,875
Challenge-Brownsville	1,069	\$ 27,037
Colfax	1,496	\$ 37,391
Diamond Springs	4,888	\$ 36,449
Foresthill	1,791	\$ 34,348
Grass Valley	10,922	\$ 28,182
Nevada City	3,001	\$ 36,667
North Auburn	11,847	\$ 37,493
Penn Valley	1,387	\$ 35,962
Placerville	9,610	\$ 36,454
Plymouth	980	\$ 37,262
Washington	140	\$ 21,667

Note:

1. As assessed from year 2000 census data (average CA household income: \$47,493, 80% poverty line: \$37,994).

In early 2006, CABY conducted a series of outreach calls to DACs within the CABY region to describe the IRWMP planning process and explore potential membership in the PC. In fall 2006, CABY outreach to DACs focused on identifying and briefing the appropriate community representatives about plan development, determining if the community had a public works department or other department that might have potential projects and, when appropriate, identifying potential projects that might assist CABY in addressing its goals and objectives. Through this work, CABY realized that many of these DACs lacked staff and resources to prepare a project application. Thus, CABY conducted a third round of outreach in early 2007 and again in 2008 to present the plan and provide technical assistance to help project sponsors successfully complete a project application. As a result of this effort, the IRWMP includes projects that originate from and/or directly benefit DACs in the region and are a part of the CABY implementation effort.



Throughout 2009 and 2010, CABY staff has continued to meet one-on-one with DAC representatives, to provide direct and extensive technical assistance in drafting project applications and to develop their capacity to participate in achieving IRWMP objectives.

#### *NATIVE AMERICAN TRIBES*

In addition to place-based DACs, Native American Tribes with historic roots in the CABY region are also considered by CABY to be a “disadvantaged community.” There were two phases of outreach to local tribes in 2006: between February and April to identify CABY participants and between October and November to identify issues and possible projects for inclusion in the plan. Tribes in the region often did not have the resources of time, personnel, or money to attend PC meetings or take part in work groups. For this reason, CABY staff took the process to the tribes. Tribal representatives received e-mail updates, phone calls, and progress presentations to keep them apprised of the process. Concerns about native resource uses were represented through the Tsi-Akim Maidu and many of the NGOs at the table. CABY also conducted outreach phone calls. CABY contacted main offices, when possible, to speak with the tribal chair or his or her representative. In 2007, CABY made presentations at several regional tribal meetings to present the IRWMP and seek feedback and continue to determine the best method of representation for tribal communities in the CABY PC given the staff constraints of these tribal communities.

Since 2008, CABY has convened an Indigenous Community Work Group that includes the majority of the tribal entities in Nevada and Placer Counties. The work group has developed several projects, one of which, a pilot project involving native youth in habitat restoration, was implemented in the summer of 2009 and continued in the summer of 2010. Another project that builds on these activities has been submitted to the Sierra Nevada Conservancy for possible funding (Native Conservation Corps).

To date, the tribes that have been contacted and/or participated in work group activities are: Colfax-Todds Valley Consolidated Tribe, Tsi-Akim Maidu, Shingle Springs Band of Miwok, Washoe Tribe of Nevada and California, Nisenan Maidu, and the Tyme Maidu/Berry Creek Rancheria. In addition, CABY has developed an outreach program through contacts in El Dorado County that will involve the following tribes in 2011: the Buena Vista Rancheria, Wilton Rancheria, Miwok Tribe of the El Dorado Rancheria, Ione Band of Miwok Indians, Jackson Band of the Mi-Wuk, Nashville-El Dorado Miwok, and the Strawberry Valley Rancheria.

As part of its strategic implementation plan, CABY will continue meeting with representatives of tribal communities in the region and work to identify tribal-originated projects or jointly develop projects to implement the IRWMP. CABY’s goal is to have all tribal entities in the region participating in the Indigenous Community Work Group. See Task 3 for more information regarding planned outreach activities.

## *ENVIRONMENTAL JUSTICE*

CABY's Environmental Justice (EJ) outreach has been focused primarily on focused networking with the Native American populations within the region. As described in the work plan below CABY proposes to retain a Spanish-speaking consultant to assist in strengthening the outreach and providing more direct links between the CABY membership and Hispanic organizations and individuals.

## **IDENTIFICATION OF WATER RELATED OBJECTIVES AND CONFLICTS**

During development of the 2007 IRWMP, CABY utilized a work group structure to identify water-related objectives, issues, and conflicts. This process allowed the organization to build durable working relationships while identifying issues of concern within the region. The existing CABY work groups grew out of this early framework.

In order to ensure that the goals and objectives of the IRWMP continue to be meaningful and applicable to project development activities, these plan elements will be revisited as part of the IRWMP update process. This is described in further detail in Task 8 of the work plan below.

In addition, while the working relationships of the stakeholders involved in CABY are indeed durable, the group has not yet taken the opportunity to consider in-depth many of the complex issues that were raised during IRWMP development and ongoing discussions from 2008 to 2010. At its September 2010 PC meeting, the membership formally decided to use the IRWMP update process as a vehicle for addressing several of the conflicts currently identified in the region such as inter-basin transfers, water banking, and off-stream storage. Nearly all of the tasks included in the work plan below provide CABY with an opportunity to address issues that have not yet been discussed in detail because of their divisive nature. Outside facilitation (such as the services provided by the Center for Collaborative Policy) will be utilized to assist the group with effective and meaningful discussion of complex topics.

## **REGIONAL PRIORITIES**

The identification of regional priorities was the result of an extensive internal review and debate process that included all CABY stakeholders and was undertaken during the development of the existing IRWMP. Through this process, CABY identified three regional priorities: 1) water quality, 2) water supply, and 3) environmental restoration and habitat improvement. In 2009, climate change was added as a regional priority. These priorities were developed to guide CABY in the development of goals, objectives, and projects and will continue to do so during the proposed updates to the IRWMP described in the work plan below.

## **DATA COLLECTION AND MANAGEMENT**

A wide array of data and information has been collected during CABY IRWMP development and implementation activities. This includes maps, reports, FERC-related documents and studies, and other similar items. These data have been used to identify problems and opportunities and to characterize conditions in the region. Because the amount of information available is vast, it has been difficult for the CABY PC to devise an effective data management system that is both useful and affordable. CABY has identified a strategy for future data collection and management that involves upgrades to the CABY

website, the Sacramento River Watershed Program's Sacramento Watershed Information Module (SWIM), and a technical bibliography. This strategy is described in further detail in Task 12 of the work plan.

### **RESOURCE MANAGEMENT STRATEGIES (RMS)**

The current version of the CABY IRWMP lists the California Water Plan Resource Management Strategies that are applicable to the region and provides a brief description of those strategies relevant to the IRWMP. The plan states that the RMS will need to be addressed in the next iteration of the document. Water Plan 2009 provides revised RMS, which will be the basis for the new IRWMP section developed as part of this planning grant. The RMS will inform many of the other tasks in the work plan, such as project development and objectives. Task 5 of the work plan describes how the IRWMP section will be developed and the RMS employed.

### **IMPACTS AND BENEFITS OF THE CABY IRWMP**

The current version of the CABY IRWMP includes a section detailing the potential impacts and benefits of implementing the plan and CABY projects. As this type of analysis is more closely linked with IRWMP implementation rather than IRWMP development, it is appropriate to update the section at this time. The update will include an analysis of whether the identified plan and project level impacts and benefits were realized, and if unanticipated impacts and benefits occurred. The revision of this IRWMP chapter is included as Task 14 in this planning grant proposal.

### **PROPOSITION 84 IRWM PLAN STANDARDS**

As previously stated, the CABY IRWMP was developed in direct response to the Proposition 50 IRWM Plan Standards, as well as the needs of the region. As the plan standards have evolved, so have the needs of the region. As written, the IRWMP is a living document and is designed to be updated over time. In 2008, CABY began updating the plan using the process identified in the IRWMP. This process consisted of officially requesting new and updated projects from CABY members, ongoing refinement and revisions to the governance process, additional stakeholder recruitment, expanded coordination with adjacent IRWMP regions, and other similar tasks. The plan updates were accomplished by the creation of appendices (Appendix I, J, and K). This strategy of developing, reviewing, and adopting appendices was utilized because the revised IRWMP guidelines were anticipated to require wholesale changes within the document. It was deemed more efficient to complete those required updates through a rewrite of the plan itself, at which point the appendices could simply be integrated in as part of the update process.

### **IRWMP UPDATES IN RESPONSE TO PROP 84 PSP**

In mid-2010, following release of the initial draft of the Prop 84 IRWM Grant Program Guidelines, CABY initiated a second round of IRWMP update. During this second round, the IRWMP was completely reformatted in anticipation of both planning grant-funded updates in 2011 and ongoing updates based on the new guidelines. As part of the 2010 process, each IRWMP section was evaluated based on the final version of the Prop 84 IRWM Grant Program Guidelines. As a result of this evaluation, it became clear that some of the plan standards could be updated within the existing staff and budget structure.

Additionally, several of the updates have been accomplished in direct response to new standards identified in the August 2010 Round 1 Prop 84 IRWM Program Proposal Solicitation Package. The portions of the IRWMP that were updated at the end of 2010 include governance, stakeholder involvement, coordination, aspects of integration, preliminary calculations of climate change scenarios, elements of data management, and development of an outline draft financing plan.

The RAP document prepared by CABY provided some of the information used during this process. However, much of the new material was developed as a result of PC discussions in the latter part of 2009 and early 2010.

## INTRODUCTION

The tasks described in the work plan below will result in an updated IRWMP document that complies with the plan standards articulated in the Prop 84 IRWM Grant Program Guidelines. Further, implementation of this work plan will provide CABY with an opportunity to focus on effective project development and meaningful collaboration and coordination both within the region and with neighboring IRWMPs.

The Planning Committee and Coordinating Committee have been extensively involved in crafting this proposal, and as a result a focus on difficult issues has been identified as high priority. Thus, topics such as inter-basin transfers, water banking, off-stream storage, corridors and connectivity, and other topics identified during the IRWMP update process will be specifically included in the activities associated with the project development, objectives, climate change, land use coordination, local water planning, and regional coordination tasks. As stated in the background section, outside facilitation (such as the services provided by the Center for Collaborative Policy) will be utilized to assist the group with effective and meaningful discussion of complex topics.

There are several important tasks that, in the aggregate, form the heart of this proposal. CABY's primary strength as an IRWMP is the breadth, depth, and durability of its stakeholder participation. Each of the work plan tasks listed directly below allow CABY to comply with the plan standards while deepening and enhancing its IRWMP processes and activities.

### *STAKEHOLDER PARTICIPATION (Task 2)*

CABY has been successful due to the consistent long-term participation by a wide variety of individuals who have committed significant time to supporting the collective endeavor. The highly collaborative nature of the group results directly from the practice of meeting in person, as opposed to reviewing documents or exchanging emails. A large portion of the CABY match results from the hundreds of hours invested by our members and partners. This stakeholder involvement and coordination effort is vital to the ongoing success of the group.

### *DISADVANTAGED COMMUNITY AND ENVIRONMENTAL JUSTICE INVOLVEMENT (Task 3)*

DACs and their resource management entities have enthusiastically welcomed CABY's outreach and support. The strong commitment of the CABY membership to provide sophisticated technical support to its DACs has become the organizational norm. This work plan proposes to continue this high level of support. Additionally, CABY members have set a high priority on expanding our outreach to include the Hispanic members of our community. This support is in the context of a two-plus year long and highly successful outreach to CABY region indigenous peoples.

### *CLIMATE CHANGE (Task 9)*

CABY has proposed a sophisticated strategy for identifying the vulnerabilities of the region to climate change. As an important source area for California water, the technical work plan proposed by CABY offers a paradigm for integrating state-of-the-art computer modeling utilizing two very different and yet

highly compatible modeling strategies. CABY has designed this process with the idea that it can be exported across the Sierra to advance local and statewide conversations on climate change.

#### *PROJECT DEVELOPMENT (Task 10)*

Early in the CABY process, it became obvious that the limited resources of the region were not sufficient to enable individual CABY members to develop the complex and detailed information and materials necessary to make implementation projects competitive. As a result, the PC committed CABY staff to support project development across the region through an intensive program of technical support. This strategy has produced more than 18 projects that are suitable for application under the new plan standards (see Tables I-6 and I-7). CABY members have been able to utilize these documents as the basis for funding applications outside the bond-funded venue.

#### *WEB PORTAL (TASK 12.2)*

Advances in web technology since the development of the CABY website make it possible improve the site's functionality, thereby serving the needs of the CABY membership and making it possible for the general public to learn about IRWMP activities. Tools will be added to the site to support an online library, collaboration tools such as online calendaring, a projects database, multimedia, and a more user-friendly interface.

### **PROCESS FOR REVIEW OF IRWMP CHAPTERS**

As a result of discussions with the PC and CC, a standardized process for reviewing completed IRWMP sections has been identified. **Rather than repeat the description of the process in its entirety throughout the work plan, the following paragraphs will be summarized at the end of the overview section of each relevant work plan task.** The review process will consist of the following activities.

Upon completion of the draft IRWMP chapter by CABY staff or the PC, the management committee (MC) (or designated sub-committee or technical advisory committee) will review the document in detail. Following the review by the MC, CABY staff will revise the document to reflect all of the comments received. The review process will be managed to ensure that the consulting team receives a single set of comments from the MC. The revised draft will be submitted to the PC for review and comment.

The PC review of the draft section will be two-fold. First, members will be encouraged to attend a comment session so that staff and the MC can hear directly from individual members and constituencies. Second, members will submit written comments and suggested revisions via email or hard copy. This phased comment strategy has proven to reduce the complexity of resolving conflicting input received when only written comments are solicited. Following receipt of all oral and written comments, staff will revise the draft IRWMP chapter and create a final review draft. This final review draft will be submitted to the MC for any final revisions or refinements. Lastly, staff will submit the final section to the PC for their final approval and adoption.

## ORGANIZATION OF THE PROPOSAL

The plan standards presented by the Department of Water Resources (DWR) will necessarily guide the overall work plan. However, the sequence in which the standards are discussed in this work plan differs from the order in which they appear in the Prop 84 IRWM Grant Program Guidelines. This change in sequence is intentional and is outlined in Table i-5 below.

TABLE I-5 ORDER OF PLAN STANDARDS IN CABY WORK PLAN	
Topical Order In DWR Guidelines	Location in CABY Work Plan
Governance	Task 17.1: Integrate Updates Accomplished 2008-2010
Region Description	Task 4: Update Region Description and Issues and Conflicts
Objectives	Task 8: Objectives
Resource Management Strategies (RMS)	Task 5: Resource Management Strategies
Integration	Task 4: Update Region Description and Issues and Conflicts; Task 10: Project Development
Project Review Process	Task 10: Project Development
Impact and Benefit	Task 14: Impacts and Benefits
Plan Performance and Monitoring	Task 11: Plan and Project Performance
Data Management	Task 12: Data Management
Finance	Task 13: Finance
Technical Analysis	Task 15: Technical Analysis
Relation to Local Water Planning	Task 7: Local Water Planning
Relation to Local Land Use Planning	Task 6: Land Use Coordination
Stakeholder Involvement	Task 2: Stakeholder Involvement and Coordination; Task 3: Disadvantaged Community and Environmental Justice Involvement
Coordination	Task 2: Stakeholder Involvement and Coordination; Task 16: Regional and Interregional Coordination
Climate Change	Task 9: Climate Change

TABLE I-6  
RELATIONSHIP OF CABY IRWMP PROJECTS AND ACTIVITIES  
TO PROP 84 IRWM GRANT PROGRAM PREFERENCES

PREFERENCES		
Regional projects or programs	<p>All CABY programs are specifically regional in scope, process, coordination, integration and implementation focus. Many of the existing CABY goals and objectives were developed to support and encourage development of regionally-oriented projects. The work plan for the IRWMP update specifically includes the concept of developing integrated regional projects (as well as integrating local projects to create a regionally relevant project), to continuously add to the suite of such projects within the IRWMP. Additionally both our existing and updated programmatic structure directly supports the development of projects at a regional level; See Task 10 of the work plan.</p>	
	<p style="text-align: center;"><i>Existing fully-developed, regionally oriented application ready projects<sup>1</sup></i></p> <p>Rural District Comprehensive Water Conservation Planning; DAC Water District Comprehensive Conservation Planning; Mountain Meadow Restoration; Western Placer Creeks (fish passage and habitat); Water Neutrality: Implementation in the CABY Region; Native Conservation Corps – Disadvantaged Youth and Environmental Restoration; and, the CABY Region Water Trust.</p>	<p style="text-align: center;"><i>Projects Under Active Development<sup>2</sup></i></p> <p>Hydrogeologic Characterization of the Foothill Fractured Terrain for Assessing Ground Water Supply Reliability; Expansion of Fully Metered Bulk Water to Rural Areas; Grey Water Systems for Water Conservation, Landowners Education and Fire Safety; ET Smart Controller Incentive Program; Raw Water Quality Monitoring and Education Program; Protection of Plant Communities of Cultural Importance; Assessing In-Stream Flow Requirements to Protect Aquatic Biota.</p>

<sup>1</sup> All projects have multiple stakeholder partners

<sup>2</sup> IBID



<p><b>Integrate water management programs/projects within hydrologic region (CA Water Plan, RWQCB, etc)</b></p>	<p style="text-align: center;"><i>Current Activities</i></p> <p><i>Inter-IRWMP outreach:</i> CABY meets regularly with the RWA, Yuba and Upper Feather River IRWM staffs and members. These meetings are meant to foster ongoing project collaboration and have resulted in development of inter-IRWMP projects. For instance, RWA and CABY have jointly developed the Western Placer Creeks fish passage and habitat improvement effort, fashioned in a CABY work group which is attended by stakeholders in both IRWMP areas. The Yuba County IRWMP is in discussions with CABY concerning a joint agricultural water conservation effort after attendance at a CABY PC meeting by a Yuba IRWMP stakeholder.</p> <p><i>Prop 84 Sacramento River Funding Area (SRFA):</i> In June 2008, CABY convened a meeting with all of the IRWMPs in the Sacramento Funding Area. This group is convened and facilitated by CABY on an ongoing basis. Since inception, the group, has continued to meet roughly quarterly and is focused on resolution of joint issues, development of projects of mutual gain, exchange of data and water management strategies, identification of stakeholder interests and other similar issues. Sustaining this group is part of the work plan, Task 16.1.</p> <p style="text-align: center;"><i>Activities Identified in IRWMP Planning Grant Scope</i></p> <p>Task 16 consists of four main components: (1) convening and participating in SRFA meetings, (2) participating in and supporting Sierra Water Work Group activities, (3) participating in the Strategic Plan for Mercury in the Sacramento River Watershed program, and (4) issue-specific coordination with adjacent IRWMPs. All of these efforts are aimed at regional cooperation and project development (see Task 10, Project Development, and Task 16, Regional and Interregional Coordination).</p>
<p><b>Resolve significant water-related conflicts within or between regions</b></p>	<p style="text-align: center;"><i>Current Activities</i></p> <p>The CABY IRWMP includes a chapter entitled Regional Water Resources Issues and Conflicts, separate from the region description where, at minimum, the standards expect to see identification of conflicts. This was done intentionally to enable a sharper focus on complex issues of regional importance. CABY has been, and continues to be, the central forum for water-related issues in the region. The attendance at PC meetings by a variety of stakeholders who are not formal CABY members attests to the draw of the discussions that occur within the group. This structure is continued in the update process (see Task 4, Region Description and Issues &amp; Conflicts) which includes a provision for keeping this chapter a consistent focus of project development, inter-regional dialogue and regional fact finding.</p>

	<p><i>Sierra Water Work Group:</i> CABY convened the early discussions of a work group that has evolved into an entity facilitated by the Sierra Nevada Conservancy (SNC) and the Sierra Nevada Alliance (SNA) – the Sierra Water Work Group. This group meets roughly quarterly and is a forum designed specifically for IRWM discussion, regional problem-solving and conflict resolution, as well as priority setting and overall coordination. In its planning grant application budget, CABY has included a line item to enable the SNA to continue hosting and coordinating this important regional venue for dialogue on water and natural resource issues (see Task 16.2, Sierra Water Work Group Participation).</p> <p><i>CABY Work Group Activities:</i> As mentioned above, CABY has convened a number of work groups that are specifically aimed at addressing regional and inter-regional conflicts. The Western Place Creeks work group has taken on the issue of anadromous fish habitat restoration in the low-elevation foothill creeks – creeks that are also integral to regional water delivery by PCWA and NID. The Working Landscapes Work Group has taken on issues of resource conservation on private lands – a very sensitive subject in ranching and natural resource communities alike. The Watershed Lands Work Group is addressing restoration of mountain meadows on both private and public lands – in areas that are important natural habit area, summer recreation destinations and prime summer grazing. The Watershed Lands Work Group is poised to take on the issue of corridors and connectivity in a region that is bisected by major highways and freeways and has one the highest growth rates in the state.</p> <p style="text-align: center;"><i>Activities Identified in IRWMP Planning Grant Scope</i></p> <p>The work plan for the IRWMP update includes three specific tasks which further resolution of conflicts and issues within and between regions: Task 2, Stakeholder Involvement and Coordination, Task 3, Disadvantaged Community and Environmental Justice Involvement, Task 4, Update Regional Description and Issues &amp;Conflicts, Task 10, Project Development, and Task 16, Regional and Interregional Coordination.</p>
<p><b>Contribute to objectives of CALFED Bay-Delta Program</b></p>	<p style="text-align: center;"><i>Consistency with CALFED Bay-Delta Program Objectives</i></p> <p>The CABY goals, objectives and project development support three critical aspects of the CALFED Bay-Delta Program Objectives: Water Quality, Water Supply and Ecosystem Restoration.</p> <p><i>Water Quality:</i> Several CABY members are in the forefront of mercury remediation on the Sierra region – the Sierra Fund and NID are both well known for their expertise and dedication of working to remove heritage mining contamination (particularly mercury) from the Sierra, in direct partnership with over ten individual CABY member organizations (federal, state and local as well as non-profit organizations). CABY has frequently served as the forum for these regional discussions and have projects that directly address the issue within the</p>

	<p>CABY IRWMP. As a headwater source area for the Delta the water quality in the CABY region will have a material effect on the Delta, removing mercury at the source is vital to keeping it out of the system. (See Task 16 for details regarding CABY's proposed planning grant-funded activities on the subject of mercury contamination.)</p> <p><b>Water Supply:</b> CABY has a variety of water conservation and efficiency projects already included in the IRWMP (2007 and 2009 updates). As a source area and one that will likely be directly affected by climate change, the ability of the region to continue to export water will be important to sustaining Delta water supplies in low-flow years. Ongoing discussions in the region have focused on water banking, creation of a water trust, investigating off-stream storage and other options that will sustain flexible ability to export water at critical times without compromising the ability of the region to serve its growing population. CABY dialogues and project development address all of these issues (Task 10).</p> <p><b>Ecosystem Restoration:</b> While the CABY region is not contiguous with the Delta, the efforts at improving water quality and supply that occur in region will have far reaching effects. For example, CABY has provide a regional forum for discussion of fish habitat restoration to ensure that anadromous fish that pass through the Delta have a secure spawning area not only in the remaining habitat at the base of rivers and streams that are blocked by dams, but also in the low-elevation headwater creeks of the western CABY region, which have supported sustainable populations of salmon and trout.</p> <p style="text-align: center;"><i>Activities Identified in IRWMP Planning Grant Scope</i></p> <p>The activities described in Tasks 2 (Stakeholder Involvement and Coordination), 3 (Disadvantaged Communities and Environmental Justice), 4 (Region Description and Issues and Conflicts), 5 (Resource Management Strategies), 8 (Objectives), 9 (Climate Change), 10 (Project Development), and 16 (Regional and Interregional Coordination) will allow CABY to continue and expand activities that contribute to the objectives of the CALFED Bay-Delta Program.</p>
<p><b>DAC water supply or quality issues</b></p>	<p style="text-align: center;"><i>Current Activities</i></p> <p>Water supply and water quality are a program-level focus of the CABY IRWMP, and consideration of disadvantaged communities is a required element of all project development activities. A Water Work Group was established in 2007 and continues to work at a regional level to identify projects that address water quantity quality issues.</p> <p>In June of 2009, the CABY Planning Committee (the IRWMP's governing body), identified water conservation, efficiency, and drought relief as high-priority topics for project development activities in 2009/2010. Outreach to DACs, with a focus on project development on these topics, was also identified as high priority. As a result,</p>

	<p>several previously unrecognized DACs, and their resources management agencies, were contacted and brought into the project development process. CABY staff provided technical support to the identified DACs and the CABY IRWMP now includes four DAC water conservation and efficiency projects that are considered “application ready” and will be included in the upcoming Prop 84 implementation grant application. Two additional DACs adopted the IRWMP in 2010 in recognition of the level of support and degree of project development support offered by CABY. Many other DAC projects were also identified on issues of water quality and water supply reliability. These continue to be developed with ongoing technical assistance from CABY staff.</p> <p><i>Activities Identified in IRWMP Planning Grant Scope</i></p> <p>The activities described in Task 3, Disadvantaged Community and Environmental Justice Programs, and Task 9, Project Development, allow CABY to expand and refined its focus on DAC issues related to water supply and water quality, as well as develop projects to address identified issues.</p>
<b>Effective integration of water and land use planning</b>	<p><i>Current Activities</i></p> <p>The CABY region has, historically, been one of the fastest growing regions in the state. As a result, each of the large Urban Water Supply Agencies (NID, PCWA and EID) have established and maintained relationships with the land use planning entities within their respective service areas.</p> <p><i>Activities Identified in IRWMP Planning Grant Scope</i></p> <p>In order to deepen and expand these relationships and provide an opportunity for coordination via the IRWMP, the planning grant work plan includes a regional land use and water conference (see Task 6, Land Use Coordination). This conference will bring together land use and water management decision makers to advance the regional discussion, create processes for ongoing inter-agency coordination, create a venue for discussions on impacts of climate change on the region, stimulate discussion on integrating land use and water planning on a formal basis, and provide a venue to identify and resolve potential regional conflicts.</p>
<b>SWFM</b>	<p>While severe flooding is a relatively rare occurrence in the CABY region, the CABY group has determined that additional evaluation of climate change on peak flows, water storage facilities, riparian and floodplain health and function will be critical components of the IRWMP Update (see Task 9).</p>
<b>State-wide Priorities</b>	See below

**TABLE I-7**  
**CONSISTENCY OF CABY PROJECTS WITH STATE-WIDE PRIORITIES**

<i>EXISTING APPLICATION-READY PROJECTS <sup>3</sup></i>		<i>PROJECTS UNDER DEVELOPMENT</i>
Drought Preparedness	<b>Water Supply and Reliability Program</b> <ul style="list-style-type: none"> <li>Comprehensive Water Conservation Program (Georgetown Divide Public Utility District)</li> <li>Comprehensive Water Conservation Program (Grizzly Flats Community Services District)</li> <li>Comprehensive Water Conservation Program (Washington County Water District)</li> <li>Comprehensive Water Conservation Program (City of Nevada City)</li> <li>Conservation through Fully Metered Bulk Water in the EID Service Area (EID)</li> <li>Leak Detection and Repair in the Communities Of Alta And Colfax (PCWA)</li> <li>CABY Water Trust (American Rivers)</li> </ul>	<b>Water Supply and Reliability Program</b> <ul style="list-style-type: none"> <li>Dutch Flat Regionalizing Domestic Water Supply System (PCWA)</li> <li>Grey Water Systems For Water Conservation, Landowner Education And Fire Safety In The Cosumnes Watershed (CA RCD)</li> <li>ET Smart Controller Incentive Program (PCWA)</li> <li>Conservation Through 8-inch Raw Water Pipeline Replacement (Grizzly Flats Community Services District)</li> <li>Hydrogeologic Characterization of the Foothill Fractured Terrain for Assessing Water Supply Reliability (EID)</li> <li>Regional Water System Reliability and Conservation – Improving Regional Raw Water Conveyance Systems (PCWA, NID, EID, EDCWA, GDPUD, GFCSD)</li> </ul>
	<b>Water Supply and Reliability Program</b> <p>CABY Region Water Conservation through the Expansion of IMS Programs (NID, PCWA, EID)</p> <ul style="list-style-type: none"> <li>Metering the Community of Strawberry (EID)</li> <li>Water Neutrality: Implementation in the CABY Region (American Rivers)</li> <li>See also the Comprehensive Water Conservation Program projects above, which contain water use efficiency components</li> </ul>	<b>Water Supply and Reliability Program</b> <ul style="list-style-type: none"> <li>Expansion of Water Recycling and Conjunctive Use Facilities (EID)</li> <li>LID in the CABY Region (CABY)</li> <li>Raw Water Optimization Project (PCWA)</li> </ul>

<sup>3</sup> (all projects have multiple stakeholder partners)

**TABLE I-7**  
**CONSISTENCY OF CABY PROJECTS WITH STATE-WIDE PRIORITIES**

<i>EXISTING APPLICATION-READY PROJECTS <sup>3</sup></i>		<i>PROJECTS UNDER DEVELOPMENT</i>
Climate change response action	<p style="text-align: center;"><b>Climate Change Program</b></p> <ul style="list-style-type: none"> <li>▪ Heat is On: Climate Change, Water Supply and Aquatic Health in the CABY Region</li> <li>▪ WEAP – Enhancements and Expansion of Data</li> </ul>	<p style="text-align: center;"><b>Climate Change Program</b></p> <ul style="list-style-type: none"> <li>▪ El Dorado County Small Hydroelectric Development Program (El Dorado County Water Agency)</li> <li>▪ Developing a Consensus-based Strategy for Predicting Regional Water System Climate Change Vulnerabilities (High and Low Emissions Modeling)</li> <li>▪ Groundwater Response to Climate Variation (EDCWA)</li> </ul>
Expand environmental stewardship	<p style="text-align: center;"><b>Watershed Restoration and Preservation Program</b></p> <ul style="list-style-type: none"> <li>▪ Bear Valley Meadow Restoration Implementation (American Rivers)</li> <li>▪ Determining Mountain Meadows Priority Actions in the Sierra Nevada (American Rivers)</li> <li>▪ Duncan Fen and Wet Meadow Complex Restoration Plan (Tahoe National Forest)</li> <li>▪ Cornish Flat Restoration (Tahoe National Forest)</li> <li>▪ Loney Meadow Restoration (Tahoe National Forest)</li> <li>▪ Hawley Meadow and Butcher Ranch Restoration (Tahoe National Forest)</li> <li>▪ Western Placer Creeks Fisheries Assessment (CABY)</li> <li>▪ Aspen Restoration Through Removal of Small Conifers (Tahoe National Forest)</li> <li>▪ Native Conservation Corps (NASNF)</li> <li>▪ Sly Park Restoration (EID)</li> </ul>	<p style="text-align: center;"><b>Watershed Restoration and Preservation Program</b></p> <ul style="list-style-type: none"> <li>▪ Van Vleck Meadow Restoration (Eldorado National Forest)</li> <li>▪ Regional Mussel Management (EID)</li> <li>▪ Assessing In-stream Flow Requirements to Protect Aquatic Biota During Dry and Critically Dry Years (SYRCL)</li> <li>▪ Barrett Lake Jeep Trail Restoration And Trail Reroute (Eldorado National Forest)</li> <li>▪ Finalize Viability of Critical, High-Impact Wolf Creek Watershed Improvement Projects and Prepare Ranked Projects for Implementation (Wolf Creek Community Association)</li> <li>▪ Development of an Expanded Laboratory Facility (Friends of Deer Creek)</li> <li>▪ Development of a Comprehensive Science Program and Education and Outreach Program (Friends of Deer Creek)</li> <li>▪ Resource Management In Constrained Economic Times</li> <li>▪ Assessing the Efficacy of Grazing Management Strategies on the Reduction of Invasive Plants, Enhancement of Native Plant Ecosystems, and Overall Support of Habitat Values</li> </ul>

TABLE I-7 CONSISTENCY OF CABY PROJECTS WITH STATE-WIDE PRIORITIES		
EXISTING APPLICATION-READY PROJECTS <sup>3</sup>		PROJECTS UNDER DEVELOPMENT
Practice integrated flood management	No projects are application ready in this category	<b>Water Quality Program</b> <ul style="list-style-type: none"> <li>▪ Impacts of Dam Management of Peak Flows on Downstream Floodplain Capacity</li> <li>▪ Esmeralda Creek Restoration (EID)</li> <li>▪ Caples Spillway Stabilization (EID)</li> <li>▪ Addressing Sediment Issues in the CABY Region</li> </ul>
Protect water quality	<b>Water Quality Program</b> <ul style="list-style-type: none"> <li>▪ Canal Water Quality Monitoring and Educational Program (PCWA)</li> <li>▪ Hangtown Creek Water and Sewer Line Replacement (EDCWA)</li> <li>▪ Bear River Mercury Extraction (NID)</li> <li>▪ Abandoned Mine Lands</li> <li>▪ Protecting the Headwaters: Groundwater Sources and Mountain Meadows</li> </ul>	<b>Water Quality Program</b> <ul style="list-style-type: none"> <li>▪ Quantifying Sediment Loading from Native Roads, Diversion Ditches, and Mines within the CABY Watersheds to Identify and Prioritize Future Restoration Projects (CA RCD)</li> <li>▪ Educational Watershed Signage (EID)</li> <li>▪ Citizen Stewards – Citizen Volunteers and Agency Coordination (NCRCD)</li> </ul>
Improve tribal water and natural resources	<b>Watershed Restoration and Preservation Program</b> <ul style="list-style-type: none"> <li>▪ Native Conservation Corps – Disadvantaged Youth and Environmental Restoration Project (Sierra Native Alliance)</li> </ul>	<b>Watershed Restoration and Preservation Program</b> <ul style="list-style-type: none"> <li>▪ Protection of Plants of Native Value (Shingle Springs Band of Miwok)</li> <li>▪ Restoring Native Plants – A Native Nursery by Native Peoples</li> <li>▪ Grey Water Systems – Conservation at Home</li> </ul>

TABLE I-7 CONSISTENCY OF CABY PROJECTS WITH STATE-WIDE PRIORITIES		
<i>EXISTING APPLICATION-READY PROJECTS <sup>3</sup></i>		<i>PROJECTS UNDER DEVELOPMENT</i>
Equitable distribution of benefits	<b>DAC Communities with Active Project Development Activities</b> <ul style="list-style-type: none"> <li>▪ Placerville (identified as DAC, 2007)– Hangtown Creek Water and Sewer Line Replacement (Placerville/EDCWA)</li> <li>▪ Nevada City (identified as DAC, 2007)– Water Conservation Program (City of Nevada City)</li> <li>▪ Washington (identified as DAC 2009) – Comprehensive Water Conservation Program (Washington County Water District)</li> <li>▪ Colfax (identified as DAC, 2007) – Leak Detection and Repair in the Communities Of Alta And Colfax (PCWA)</li> <li>▪ Alleghany (Identified as a DAC, 2009) – Water System Upgrade and Replacement</li> </ul>	



## WORK PLAN

### TASK 1 ADMINISTRATION AND PROGRAM MANAGEMENT

**OVERVIEW:** The CABY Regional Water Management Group (CABY-RWMG), a non-profit corporation formed in 2009 and certified by the IRS in 2010, will oversee and direct the planning grant work effort. As described in the introduction to this work plan, it is important to understand that the RWMG referred to in the Prop 84 IRWM Grant Program Guidelines is, within the existing CABY MOU-based organization, the Planning Committee (PC). The existing PC will remain the decision-making body for IRWMP update activities and be referred to throughout this work plan. The CABY-RWMG refers only to the non-profit corporation formed specifically to act as applicant for Prop 84 and other funding.

The Nevada Irrigation District (NID) will continue in its role as fiscal agent to the group to preserve the high level of function NID has provided, as well as the continuity of financial management within the organization. Since 2007, NID has served as fiscal agent to the CABY MOU-based organization.

TASK 1   ADMINISTRATION AND PROGRAM MANAGEMENT	
<b>Goal of Task</b>	Ensure that the contract is administered appropriately and accurately with all invoicing, reporting, and management compliant with the IRWMP plan standards.
<b>Subtasks</b>	1.1 DWR Contract Oversight 1.2 DWR Reporting and Invoicing 1.3 Develop, Negotiate, and Administer Subcontracts 1.4 Update Formal Match Tracking System 1.5 Consolidate CABY Files from 2008 through 2010
<b>Key Deliverables</b>	<ul style="list-style-type: none"><li>• Negotiated and signed contract between DWR and CABY-RWMG</li><li>• Contract between CABY-RWMG and fiscal agent</li><li>• Negotiated and signed contract between CABY-RWMG and lead consultant</li><li>• Policies, procedures, and systems to support contract management and reporting</li></ul>
<b>Budget</b>	<b>Total funds requested:</b> \$81,860 <b>Match:</b> None <b>Match sources:</b> n/a

#### 1.1 DWR Contract Oversight

The CABY-RWMG will have primary responsibility for contract oversight for the duration of the project. To accommodate this responsibility, the group will designate a Management Committee (MC). The MC will meet monthly for the duration of the project and will review the status of deliverables, evaluate the budget (percent complete versus percent spent), confirm both printed and processed deliverables, and provide direction to the CABY consultants, as well as other management tasks. This grant administration and management system exactly parallels the management structure that has successfully managed the public funds contributed by the water agencies (i.e., NID, EID, PCWA, EDCWA) to support the CABY effort from 2007 to 2010 (totaling over \$900,000). The CABY membership has come to depend on the

functioning of a committee like the MC and has concurred with tasking a new entity to perform these necessary functions.

The administrative systems to support and oversee the level of work described in this proposal (and required by DWR) already exist within the CABY system and will be utilized by the CABY-RWMG.

NID has served as fiscal agent to the CABY MOU-based organization since 2007. NID will continue in this role.

### **1.2 DWR Reporting and Invoicing**

The CABY consulting team has extensive experience in invoicing and reporting of Proposition 50 bond funds. While the Prop 50 and DWR invoice requirements will be different in form and content, the CABY-RWMG board is confident in its capacity to ensure that the monthly invoices submitted to DWR will be delivered in a manner and form that is fully consistent with the grant agreement requirements.

### **1.3 Develop, Negotiate, and Administer Subcontracts**

The CABY MOU-based organization has worked with the same consulting team since 2007. Under this contract arrangement, the lead consultant had responsibility for identifying required consultants and sub-consultants, negotiating contracts with those entities, supervising completion of contract and deliverables, and other similar responsibilities. The CABY-RWMG proposes to use the same strategy for this planning grant cycle.

The MC will work with the lead consultant on a monthly basis to track the status of all work tasks, deliverables, and budgets. In this way, the day-to-day management of consultants will be left to the lead consultant, while a monthly review of contract status will be conducted by the MG. The lead consultant has and will continue to develop contracts that stipulate appropriate insurance and compliance with the all relevant sections of agreement dealing with insurance, personnel and conformance with rules and regulations of the State of California. Finally, the relevant language contained within the primary agreement between DWR and the CABY-RWMG will also be included in contracts where relevant. Both the contract with the lead consultant and the lead consultants' contracts with its subconsultants will be accomplished contemporaneous with development of the agreement between the CABY-RWMG and DWR.

### **1.4 Update Formal Match Tracking System**

The CABY MOU-based organization has been tracking both in-kind and direct contributions of time and materials to the CABY effort. However, to fully document the match for this planning grant cycle, the CABY-RWMG will expand the tracking system to include a more detailed and comprehensive tracking system to comply with the spirit and requirements of the Prop 84 IRWM Grant Program Guidelines.

### **1.5 Consolidate CABY Files from 2008 through 2010**

The CABY MOU-based organization was originally managed by the El Dorado Irrigation District (EID), as was the initial IRWMP document production effort. As a result of these activities, EID accumulated

substantial paper and electronic files. In 2008, management of the CABY organization was delegated to a lead consultant. During the period of 2008 through the end of 2010, a significant number of memoranda, agendas and meeting notes, project development files, project applications, PC and CC agendas and notes, financial management documents, reports, and data were produced.

In order to draw on the resources of the initial planning effort and ensure that the documentation for the interim plan updates are organized and accessible, it will be necessary to retrieve both paper and electronic files and documents from EID and merge these materials with the existing CABY filing and data management system.

## **TASK 2 STAKEHOLDER INVOLVEMENT AND COORDINATION**

**OVERVIEW:** A variety of committees, subcommittees and technical advisory committees will need to meet through the IRWMP update process to accomplish the goals articulated in each task of the work plan. CABY's current meeting structure—which involves regular gatherings of the PC, CC, and work groups—will be replicated throughout the IRWMP update process. The structure will be augmented by conferences or workshops on specific topics, such as land use planning and issues of specific concern, such as anadromous fish and mercury. This meeting structure is the heart of CABY's collaborative function. Stakeholders who have not yet adopted the IRWMP regularly attend PC and work group meetings, and it is anticipated that this will continue through the IRWMP update process. Thus, the meeting structure has been an effective recruitment tool in the region. This has been proven by the increase in IRWMP adoptees since 2007. The meeting structure has also proven to be a particularly effective DAC recruitment tool, as it provides flexibility and support for DAC stakeholders. The availability of working groups who meet at times that are convenient for participants and the provision of stipends for some stakeholders has contributed greatly to CABY's ongoing success with community and stakeholder involvement.

Outreach to the business community, ranchers and farmers, and local government has produced uneven results for CABY. For instance, while we have experienced strong success in project development activities with individuals from the agricultural community, consistent participation is not the norm. With local governments, the financial events of the last few years have severely constrained all of our smaller governmental organizations. Again, we have had strong success in project development with our small and DAC communities, however establishing multi-department relationships within the four counties is currently in the planning stage and not yet been fully implemented. CABY staff continues to interact with public works, parks and planning departments around the region, but the PC has determined a more systematic outreach would be desirable.

As part of the plan updates accomplished in late 2010, specific strategies will be identified to invigorate and expand CABY's outreach to targeted constituents. Outreach activities will likely include workshops, conferences, one-on-one meetings with leaders within the constituent groups, creation of a speakers' bureau, and outreach to clubs, associations, fraternal organizations, community associations, and other targeted groups. Additionally, working group members will be recruited to conduct more intensive

outreach within their associated constituencies. The creation of projects aimed at the interests of importance to these constituents will be an intentional consideration within each work group.

At critical junctures of CABY's evolution the group has utilized the services of a graphic facilitator to help catalyze and confirm the group's vision, sense of purpose, and future-oriented thinking (see Figure 2-1, below). This strategy has proved so successful that the group has specifically requested that this meeting strategy be used again and that a wider variety of CABY stakeholders be recruited to attend to maximize the diversity of the input.

While each individual task describes the meetings and associated activities in detail, this task provides an overview of the meeting framework, while also providing an effective way to track and budget this essential element of the CABY process. See the introduction to the budget for more information regarding number of meetings and anticipated participants.

TASK 2   STAKEHOLDER INVOLVEMENT AND COORDINATION	
<b>Goal of Task</b>	The goal of this task is to establish a comprehensive, consistent, and predictable committee and sub-committee structure to support preparation of the IRWMP.
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Agendas, support materials, post-meeting summaries for all committee, sub-committee and TAC meetings</li> <li>• Posting of meetings materials on the CABY website</li> <li>• Committee, sub-committee, and TAC meetings</li> <li>• Development of data and language</li> <li>• Review of draft sections</li> <li>• Comments from participants on draft materials</li> <li>• Final sections for submittal to the PC</li> </ul>
<b>Match Sources:</b>	<b>Total funds requested:</b> \$ 123, 198 <b>Match:</b> \$192,712 <b>Match sources:</b> CABY members

FIGURE 2-1  
GRAPHIC FACILITATION EXAMPLE



### **TASK 3 DISADVANTAGED COMMUNITIES & ENVIRONMENTAL JUSTICE**

#### *TRIBAL OUTREACH*

CABY has expended considerable effort in establishing relationships with the Native American community within the region. The Indigenous Community Work Group was formed in November 2008 following extensive individual communication with tribal members across the region. A primary focus of this outreach and of the working group was on non-Federally Recognized Tribes, although CABY has established basic working relationships with three of the Federally Recognized Tribes in the region. Therefore, CABY's tribal work will continue with an increased emphasis on project development activities associated with tribes who do not manage tracts of land and who do not have significant sources of income as a tribe.

#### *RURAL AND DISADVANTAGED COMMUNITIES*

The systematic identification and outreach to rural and disadvantaged water agencies within DACs was a key component of CABY's project development during the 2009/2010 IRWMP update. This outreach resulted in technical assistance related to project development for several disadvantaged and severely disadvantaged communities. CABY's policy for supporting DAC project development includes technical outreach and assistance by CABY staff, which has so far included project identification; development of work plans, schedules and budgets; identification of performance measures; assessment of project benefits; and other similar activities. This intensive level of outreach and service has resulted in the adoption of the CABY IRWMP by each of the served communities, further expanding the reach of CABY within the region.

#### *HISPANIC OUTREACH*

CABY's outreach within the Hispanic community has been extremely limited. Therefore, Hispanic outreach will be a focus of the upcoming IRWMP update.

Following completion of the subtasks described below, an initial draft of the disadvantaged community and Environmental Justice involvement text for the IRWMP will be prepared. The text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

<b>TASK 3   DISADVANTAGED COMMUNITIES &amp; ENVIRONMENTAL JUSTICE</b>	
<b>Goal of Task</b>	The goal of this task is to identify, contact, engage, and support participation by disadvantaged communities and Environmental Justice constituents in identifying critical issues, developing objectives, and creating implementation projects.
<b>Subtasks</b>	3.1 Finalize DAC descriptions 3.2 Establish Environmental Justice Program 3.3 Implement Environmental Justice Program 3.4 Establish Rural Disadvantaged Community Outreach Program 3.5 Implement Rural Disadvantaged Community Outreach Program 3.6 Integrate Constituent Concerns into Relevant CABY IRWMP Sections
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Plan for outreach activities to DAC and EJ constituents</li> <li>• Meetings and associated materials with individuals and organizations</li> <li>• Production of key outreach materials in Spanish</li> <li>• Distribution of septic system brochure</li> <li>• Involvement of stakeholders in project design</li> <li>• Identification and development of projects conceived by participants</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$81,030 <b>Match:</b> \$12,327 <b>Match sources:</b> Consultant (CABY staff)

### 3.1 Finalize DAC Descriptions

While CABY has performed extensive Census-based research to identify disadvantaged communities and populations within the region, the IRWMP has not yet been updated to reflect this ongoing research. Additionally, the results of the 2010 Census will become available during the planning grant cycle and these statistics will need to be integrated into both our outreach strategies and the IRWMP document itself. Finally, the Prop 84 IRWM Grant Program Guidelines allow RWMGs to define “community,” rather than mandating a strict place-based definition. This provides flexibility in the process of identifying concentrations of disadvantaged people within communities (DAC), and also the identification of communities that are demographic in nature (e.g., Environmental Justice) which are not necessarily place-based. This is a particularly important consideration for rural regions, where populations are spread out and most communities are not incorporated.

### 3.2 Establish Environmental Justice Program (Hispanic and Tribal Outreach)

It is important to note that the CABY region contains substantial Hispanic and Native American populations. Placer County (11.7%), El Dorado County (11.3%), and Nevada County (7.4%) and portions of Sierra and Amador Counties represent a Hispanic population of more than 6,000 individuals. Placer County (8%), Nevada County (15%), and El Dorado County (8%) and portions of Sierra and Amador Counties represent a Native American population of roughly 5,500 individuals.

Few of the Native American and Hispanic residents are located in discreet and readily identifiable communities. As a result, outreach cannot be accomplished through a location-specific strategy. In the



case of Native American constituents, CABY has had considerable success communicating with these communities via established non-profit organizations and networking within the extensive Native American community.

CABY's outreach to the Hispanic community will need to focus on social institutions, such as local churches and associations of Hispanic business people. Additionally, CABY will need to identify community members who are willing to assist with interpretation and/or have the capacity to make presentations for CABY. This will involve developing Spanish-language outreach materials. CABY staff has already connected with individuals within the Tomales Bay ICWMP region who created substantial materials for that program to assist CABY with designing and delivering its EJ program. CABY plans to contract with a Spanish-speaking community representative to focus the outreach and provide regional continuity.

CABY's EJ program will be developed in consultation with Hispanic and Native American community members and the PC. The program will include a discussion of the objectives, desired outcomes, and implementation strategies relevant to these constituencies.

### **3.3 Implement Environmental Justice Program (Hispanic and Tribal Outreach)**

Based on previous experience, probable components of the EJ program will include convening meetings, with occasional, focused workshops and forums with DAC and EJ constituents. A line item for modest stipends, to enable tribal and Hispanic participation in meetings and other events, is included in the budget.

Successful implementation of the program will depend on a variety of factors, many of which are outside of CABY's control, such as the interest of the community in water-related issues, the capacity of the community to engage in ongoing dialogue, and the relevance of the CABY mission to the targeted constituents.

Therefore, the EJ program will be built on elements that are within CABY's control. Examples include the creation of suitable outreach materials, provision of stipends for participation, provision of technical support to enable integration of these constituents into the CABY structure, assistance from organizations that have experience in delivering EJ programs focused on Hispanic and Native American populations, and development of an outreach strategy that focuses on going to the community instead of requiring that the community comes to CABY. An additional emphasis of the program will be the direct involvement of these constituents in project development activities.

### **3.4 Establish Rural Disadvantaged Community Outreach Program**

As previously stated, technical assistance to water agencies and irrigation districts within DACs has been a key component of CABY's project development activities. Although 12 DACs have been identified in the CABY region, outreach to the community services and irrigation districts within each of these communities has not yet been undertaken in a systematic way. CABY's experience has shown that the



agencies and organizations within DACs have severely limited capacity to participate in IRWMP activities, including project development but respond enthusiastically and with great commitment and perseverance once contacted and engaged. This task will formally establish an outreach program that includes identification of additional DACs in the region; identification of water agencies, irrigation districts, or other community services districts within the region's DACs; and technical assistance for these constituents or entities to participate in IRWMP activities.

CABY staff has contacted the Tomales Bay Watershed Council and the regional water management group for the Tomales Bay ICWMP to obtain an electronic copy of the septic system care and maintenance brochure they produced. The brochure provides information regarding the care and maintenance of home septic systems. It will be distributed throughout the region at a variety of venues, with a particular concentration on small rural communities.

### **3.5 Implement Rural Disadvantaged Community Outreach Program**

Project development and technical assistance for creation of project materials (i.e., work plans, schedules, budgets, performance measures, and economic and technical feasibility evaluations) will be essential elements of the DAC outreach program. Any additional DACs that are identified as a result of the completion of Census 2010 will be systematically contacted and invited to participate in IRWMP update activities. Further, community services agencies (such as water purveyors or system managers and public utilities districts) will be contacted and brought into project development activities. Technical assistance will be provided to DACs and agencies or entities within DACs as necessary.

There are 15 libraries that currently serve the region. Many of these libraries serve as a community gathering point, as well as an access point for computer and Internet service. In this way, libraries provide a venue for individuals to access, track, and interact with the IRWMP preparation process via the Internet.

Conversations with a representative sampling of the libraries indicate that a shortage of computer terminals has and will continue to hamper their capacity to serve multiple individuals concurrently. In order to respond to the needs of these local libraries, a systematic assessment of the libraries will be undertaken to identify which facilities would most benefit from the 10 computers currently included in the project budget. This evaluation will include an assessment of each institution's individual capacity to support an Internet connection and computer-related costs (e.g., print cartridges and repairs) over time. Following completion of the evaluation, a maximum of 10 libraries will be identified as IRWMP data sites and will participate in the purchasing and set up of the required hardware and software. Preliminary conversations with computer vendors indicate that a discounted rate for purchase of multiple machines by a non-profit organization will likely be made available. Additionally, many of the major computer manufacturers have hardware donation programs for which the CABY-RWMG would be eligible. Finally, Microsoft has an active software donation program oriented specifically to non-profit and disadvantaged populations. The consultant team has committed to donate their time in investigating the most cost effective equipment purchasing strategy as a component of their match on the project.

### **3.6 Integrate Constituent Concerns into Relevant CABY IRWMP Sections**

A key deliverable of this task will be a summary of identified EJ and DAC issues and priorities, which will inform the issues and conflicts section of Task 4, as well as Task 5, Resource Management Strategies, and Task 6, Objectives. The inclusion of culturally relevant locations and resources in the region description section will be explored.

In addition, EJ and DAC interests will be reflected in the project design process in two ways. First, key interests and concerns of these communities will be communicated to existing work groups so that these topics can be integrated into project design efforts. This activity will include recruitment of additional EJ and DAC constituents into work groups, such as the existing Indigenous Community Work Group. Second, an emphasis will be placed on projects that can be designed and implemented by the individual community or constituency itself.

## **TASK 4 UPDATE REGION DESCRIPTION AND ISSUES & CONFLICTS**

**OVERVIEW:** Since the initial preparation of the IRWMP, many technical documents have been prepared by agencies and organizations within the region that are relevant to the identification and quantification of regional issues. Collecting and evaluating this data will support the update of the region description section.

### *MOUNTAIN MEADOWS*

Representatives of the Mountain Meadows IRWMP, which was proposed in 2008, approached CABY in February of that year to determine willingness to absorb mountain meadows issues, projects, and objectives into the CABY IRWMP. By doing so, the proposed Mountain Meadows IRWMP would be effectively “split” between the Upper Feather and CABY IRWMPs. Several meetings were held with staff members of DWR, the Upper Feather IRWMP, and the staff of the Mountain Meadows IRWMP (i.e., Natural Heritage Institute). As a result of these meetings, DWR approved the integration of the Mountain Meadows IRWMP into the Upper Feather and CABY IRWMPs.

The draft Mountain Meadows document was revised as a result of these meetings and subsequently split between CABY and the Upper Feather. This document, entitled “Planning to Restore Meadow Functionality in the Headwaters of the CABY Region” was submitted to CABY staff in 2008. Meetings were then convened throughout the region to solicit input regarding goals, objectives, and projects. The document was refined as a result of these meetings and submitted to the PC on December 11, 2008 for consideration. The PC agreed to begin the process of integrating the document into the IRWMP as an appendix. It was formally adopted by the PC on June 3, 2009 as Appendix K.

This appendix includes a mountain meadows-related goal, set of objectives, and list of implementation projects. These elements will need to be formally integrated into the updated sections of the IRWMP, including the region description, objectives, issues and conflicts, and project development.

American Rivers, a CABY member, and CABY have jointly pursued a variety of grants to support mountain meadow restoration. In 2010 American Rivers was awarded a significant grant from the National Fish and Wildlife Foundation (NFWF) to support the evaluation and prioritization of mountain meadows in the Sierra. One of the watershed studied as part of this effort lies totally within the CABY region. The outcomes of the study will directly affect the region description and the identification of objectives and performance measures. Half of this grant is proposed as a match for the IRWMP update because the report will have such a direct bearing on CABY resources and management strategies into the future.

#### *ISSUES AND CONFLICTS*

During the development of the existing IRWMP the CABY group decided that issues and conflicts were important and complex enough to warrant a separate section. This section will be updated and maintained as its own chapter. It is included in this task with region description because of the connection made by the Prop 84 IRWM Grant Program Guidelines and the closely linked nature of these topics.

Following completion of the subtasks described below, an initial draft of the region description section and issues and conflicts text for the IRWMP will be prepared. This text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Development.

<b>TASK 4   UPDATE REGION DESCRIPTION AND ISSUES &amp; CONFLICTS</b>	
<b>Goal of Task</b>	The goal of this task is to revise the existing Regional Water Resources (i.e., region description) chapter to reflect data produced after 2007 and to update the Regional Water Resource Issues and Conflicts chapter in response to evolving circumstances in the region.
<b>Subtasks</b>	4.1 Collect and Evaluate Post-2007 Data 4.2 Disseminate Collected Data 4.3 Integrate New Data into Region Description 4.4 Update Issues and Conflicts 4.5 Integrate Mountain Meadows- Specific Language
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Compilation of available data</li> <li>• Identification of necessary updates</li> <li>• Memoranda summarizing discussions within the group to update issues and conflicts</li> <li>• Revisions and updates to GIS maps</li> <li>• Integration of mountain meadows-specific and climate change language</li> <li>• Dissemination of collected data (e.g., SWIM and updated CABY web portal)</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$ 21,270 <b>Match:</b> \$75,000 <b>Match sources:</b> American Rivers

#### **4.1 Collect and Evaluate Post-2007 Data**

CABY staff, with assistance from PC members, will collect and evaluate data to determine its relevance to the IRWMP. The collected data will likely be of two types: 1) data that directly impacts the breadth or depth of the CABY region description and 2) data that is relevant at the project development level but is not appropriate for inclusion in the region description or does not directly influence articulated regional resource descriptions. CABY staff will integrate relevant data into the region description (see Task 4.3).

The ongoing Federal Energy Regulatory Commission (FERC) relicensing efforts of EID, NID, and PCWA have generated extensive new data, some of which was scoped to include relevant information for the CABY IRWMP update. Additionally, many CABY members have developed new information and materials as a result of project implementation activities or technical evaluations in support of other programmatic priorities. Finally, state and federal agencies have also developed data since 2007 that is relevant to a discussion of the CABY region and will help augment and focus the CABY issue identification and project development efforts.

As an initial component of this task, each of the CABY members and stakeholders, as well as adjacent IRWMPs will be contacted to identify new reports, studies, data sets, evaluations, and/or technical memoranda relevant to water management issues within the region. Previous experience has shown that a simple request for data via email does not result in identifying the full range of available materials. Therefore, individual phone calls and face-to-face meetings will be used to gather data and ensure that the collection efforts also fully support Task 12 Data Management.

A primary screening criterion for collected data will be its relevance to issues, locations, or resources within the CABY region. The identified data will be collected electronically (and in hard copy, as necessary) and evaluated by CABY staff, MC, and PC members, and/or IRWMP adoptees to determine the relevance of the data to the region description.

The results of Task 9, Climate Change, will be fully integrated into the region description section, both in terms of identifying future climate change scenarios and regional vulnerabilities. Because of the importance of this issue to the region the PC has determined that a complete IRWMP chapter on climate change will be prepared.

#### **4.2 Disseminate Collected Data**

The objective of this task is to ensure that all CABY members, stakeholders, and the general public, have access to data developed by agencies and organizations in relation to IRWMP activities since completion of the current version of the CABY IRWMP (2007).

At minimum, all collected data will be included either in the technical bibliography developed in Task 10, Data Management, or the Sacramento River Watershed Program's SWIM system, or both. PC members will receive targeted training of the SWIM online system (see Task 10) to ensure their capacity to access and use data that is made available as a result of this task. The technical bibliography will be made

available online upon completion of the CABY website update (discussed in Task 12.2) and will become an appendix to the updated IRWMP.

### **4.3 Integrate New Data into Region Description**

Based on the outcomes of Tasks 4.1 and 4.2, the MC will develop a specific inventory of components of the region description that will need to be updated to reflect new data. Staff will use this inventory to focus and direct the systematic update of the region description section. The updated section will be vetted early in the process by the PC to ensure that all subsequent tasks make use of this updated region description.

### **4.4 Update Issues and Conflicts**

This task has two primary components: 1) inform the deliberations of the watershed-based work groups and their efforts to identify watershed-specific issues, conflicts, and objectives; 2) to integrate the outcomes of the watershed-based work groups into an IRWMP section.

To support the watershed-based work groups, the existing issues and conflicts information will be synthesized into a handout for the work groups to use in initiating their discussions regarding their local watershed issues, conflicts, and objectives. In this way, the work groups will work to iteratively identify and potentially resolve inter-watershed issues.

The existing issues and conflicts section will be reevaluated based on the outcomes of the DAC and EJ Programs (Task 3), the RMS evaluation (Task 5), identification of objectives (Task 8), project development (Task 10), and regional and interregional coordination (Task 16). The update of this section will include exploration of new issues and conflicts, activities aimed at resolving or advancing the issues, an update of the issues and conflicts included in the existing IRWMP, and the inclusion of relevant information from other tasks in the work plan.

It is anticipated that the issues and conflicts section will not be finalized until the final stages of IRWMP preparation, specifically to maintain the ability of CABY stakeholders to progressively identify, and where feasible resolve or at least advance regional discussion of, these issues. Interim versions of the issues and conflicts materials will be made available to the MC and PC at each of their meetings and will be a regular item on the agenda. The issue updates will be posted on the web site on a regular basis. This will ensure that these topics are not only identified and described, but that opportunities to progressively address, reduce or eliminate the conflicts are undertaken.

### **4.5 Integrate Mountain Meadows-Specific Language**

Each watershed work group will include consideration of mountain meadows as part of its work effort. This will involve consideration of Appendix K, Planning to Restore Meadow Functionality in the Headwaters of the CABY Region, as well as individual restoration efforts on public and private lands that have been or need to be considered within the individual watershed. As with Task 4.4, considering mountain meadows from a regional perspective will occur after the watershed work group effort is complete.

In addition, the outcomes of a variety of CABY region and Sierra-wide projects funded by NFWF and the Sierra Nevada Conservancy (SNC), which are scheduled to be completed during the plan update timeframe, will be integrated into the mountain meadows information.

## **TASK 5 RESOURCE MANAGEMENT STRATEGIES (RMS)**

There are 32 individual RMS included in the California Water Plan 2009. The Prop 84 IRWM Grant Program Guidelines require that each of the strategies be assessed from the perspective of IRWMP applicability. The current version of the IRWMP lists the RMS applicable to the CABY region and states that they need to be evaluated and employed in IRWMP activities in a future iteration of the document. This planning grant cycle provides an opportunity for CABY to complete an in-depth evaluation of the updated RMS and use this information to inform identification of objectives, project development, and other tasks associated with the IRWMP revision.

Following completion of the subtasks described below, an initial draft of the RMS section will be prepared. This text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

<b>TASK 5   RESOURCE MANAGEMENT STRATEGIES (RMS)</b>	
<b>Goal of Task</b>	The goal of this task is to thoroughly evaluate the Water Plan 2009 resource management strategies and systematically integrate relevant strategies into IRWMP materials and committee processes.
<b>Subtasks</b>	5.1 Review and Evaluate RMS 5.2 Refine and Finalize RMS Evaluation
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Memo summarizing relevant RMS</li> <li>• PC identification of applicable RMS strategies</li> <li>• Integration of RMS into appropriate sections and update activities</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$ 10,340 <b>Match:</b> none <b>Match sources:</b> n/a

### **5.1 Review and Evaluate RMS**

CABY staff will undertake an in-depth review and evaluation of the RMS presented in Water Plan 2009. This evaluation will inform and be informed by the processes of updating the issues, conflicts, and objectives. Specifically, the RMS will be evaluated to determine which RMS would assist CABY in achieving objectives or addressing issues or conflicts. A detailed outline will be prepared, which identifies the strategies that are applicable within the CABY region.

### **5.2 Refine and Finalize RMS Evaluation**

Based on the outcomes of Task 4.1, CABY staff will develop a document that will include a final list of applicable RMS, a list of non-applicable RMS, and a rationale for inclusion or exclusion. The document will also include an outline format description of how each relevant RMS can be integrated into the IRWMP. This will be submitted to the PC for final review and adoption.

## **TASK 6 LAND USE COORDINATION**

**OVERVIEW:** Within the CABY region, the level of communication between land use decision makers and water managers varies considerably. In some cases, frequent meetings are the norm. In other cases, meetings occur infrequently and only in the context of a specific project development application. The CABY PC has determined that increasing both the level and frequency of communication, as well as establishing specific procedures to support this increase, should be supported both within the membership and in the IRWMP update.

Rather than contact each city and county within the region individually, the IRWMP update strategy will focus on bringing land use decision makers and water managers from across the region together in a day-long event aimed at fostering long-term collaboration, between individual cities and counties (and their respective water managers) and also between land use decision makers themselves. The motivation for bringing together city and county managers is to ensure that general plan updates, annexations, approval of important projects, and other similar factors are discussed and understood from the perspective of their impact on water management and to integrate water managers into these discussions. In addition to identifying processes to standardize contacts between land use decision makers and water managers, this conference also seeks to create a regional dialogue concerning the long-term effects of climate change on water supply and the resultant impacts on infrastructure, operations and management flexibility and supply.

Following completion of the subtasks described below, an initial draft of the land use coordination text will be prepared. This text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 6 LAND USE COORDINATION	
<b>Goal of Task</b>	The goal of this task is to foster an exchange of knowledge and expertise between land use and water agency managers. Also, to create a meaningful linkage between the IRWM process and land use and water planning. Lastly, to develop a process to ensure durable and proactive relationships.
<b>Subtasks</b>	<b>6.1 Convene Regional Conference</b> <b>6.1.1</b> Contact Land Use and Water Management Decision Makers across the Region <b>6.1.2</b> Create Planning Group to Design Event <b>6.1.3</b> Coordinate logistics <b>6.2 Implement Recommendations Identified During Conference</b>
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Contact and interviews with land use decision makers and senior staff</li> <li>• Planning group development of agenda, speakers list, and key materials</li> <li>• Coordination of event logistics</li> <li>• Regional conference</li> <li>• Development of list of coordinated follow-up activities between land use decision makers and water managers</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$40,661 <b>Match:</b> none <b>Match sources:</b> n/a

### 6.1 Convene Regional Conference

The product of this task will be a regional land use and water conference. The purpose of convening the conference is to advance the regional discussion, create processes for ongoing inter-agency coordination, create a venue for discussions on impacts of climate change on the region and provide a venue to identify and resolve potential regional conflicts.

#### *6.1.1 Contact Land Use and Water Management Decision Makers across the Region*

CABY members and staff will systematically contact city and county land use and water decision makers and staff to recruit their participation in the regional conference, identify potential speakers, identify important topics, determine key stakeholders within their systems who should be contacted, and identify a formal contact person for each entity.

#### *6.1.2 Create Planning Group to Design Event*

Based on the contacts made in Task 6.1.1, a small (i.e., four to six members) planning group will be recruited to assist in designing the conference, identifying key note speakers, developing appropriate break-out sessions, developing outreach materials, and other similar activities. This planning group will meet four times. CABY staff will take primary responsibility for the logistics of the event, while the planning group will take primary responsibility for identifying and developing the content and overall agenda for the event.



### *6.1.3 Coordinate Logistics*

A conference of this size will require a considerable amount of logistics to ensure a high level of participation and satisfaction with the outcomes. The location of an adequately sized facility that is central to the region and provides maximum opportunity for networking and informal collaboration will be important. This task will include the preparation and printing of all necessary materials, the coordination of speakers' logistics, provision of necessary supplies, and the myriad tasks associated with conducting an event of this size.

## **6.2 Implement Recommendations Identified During Conference**

Conference activities will be managed and recorded in such a way that the outcomes of the conference in terms of individual break-out sessions and plenary sessions will be made available electronically and via the CABY website to all event participants. Particular attention will be placed on synthesizing the results into concrete action items. The planning group will conduct a final meeting to assist in distilling the results of the conference in meaningful terms and developing a set of follow-up summary materials.

## **TASK 7 LOCAL WATER PLANNING**

**OVERVIEW:** As part of updating the existing CABY IRWMP, the sections dealing with local plan content and local plan information and references will be updated based on changes that have occurred since publication of the 2007 IRWMP. As part of the data collection effort for Task 9, Climate Change, the impacts of climate change, water and land use management issues resulting from those changes, and climate change adaptation and mitigation strategies that exist in local plans both of water agencies and land use planning agencies will be collected. This information will be provided to the PC as this has historically been the venue in which these large-scale regionally oriented discussions are conducted. The PC will develop a specific strategy by which water planning and management can include impacts of climate change, population-related increases in water demand, and potential regulatory or operational impacts on CABY region water due to issues surrounding the Sacramento-San Joaquin Delta. Implementation of this strategy will be the focus of this task. The existing CABY Water Work Group will also be closely involved in this effort.

Following completion of the subtasks described below, an initial draft of the local water planning section will be prepared. This text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

<b>TASK 7 LOCAL WATER PLANNING COORDINATION</b>	
<b>Goal of Task</b>	The goal of this task is to review plans and documents produced or updated since 2007 and update the applicable plans section to reflect this new data.
<b>Subtasks</b>	7.1 Gather, Evaluate, and Integrate Applicable Plans
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Compilation of relevant planning documents updated since 2007</li> <li>• Update of existing IRWMP to reflect changes in area plans</li> <li>• Integration of limits, levels, and criteria from plans into IRWMP, wherever relevant</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$7,220 <b>Match:</b> none <b>Match sources:</b> n/a

### **7.1 Gather, Evaluate, and Integrate Applicable Plans**

CABY staff will contact city, county, and relevant federal and state agency departments with responsibility for planning to update information in the existing IRWMP and to identify relevant plans that were not included in the initial IRWMP development. The collected plans will be evaluated to support the update of the existing IRWMP chapter. As an additional component of the work effort, the evaluation will also ensure that the local plan information and references included in the IRWMP are up-to-date and accurate. Wherever possible, the limits, levels, and criteria from the gathered planning documents will be integrated into the IRWMP, most likely in the context of measurable objectives.

Task 9.2, Collect and Synthesize Region-Specific Climate Change Data, specifically includes the collection and synthesis of region-specific climate change data from all levels of government and private land use and resource managers.

## **TASK 8 OBJECTIVES**

**OVERVIEW:** CABY members spent considerable time and effort identifying and describing the goals and objectives in the existing plan. In fact, the goal and objective development process was an integral part of building the durable stakeholder relationships that now characterize the region. Therefore, careful attention will be given to respecting the consensus represented by the existing IRWMP language, while responding to the Prop 84 IRWM Grant Program Guidelines and requirements of plan and project implementation and monitoring.

The goals and objectives included in the IRWMP accurately represented the desires and expectations of the initial group at the earliest stage of plan development. However, in the four years since the document was completed, it has become clear that the IRWMP goals and objectives need to be flexible enough to accommodate the vigorous CABY project development approach. Therefore, CABY intends to complete a comprehensive revision of the goals and objectives. Consideration will be given to establishing program-level objectives, and ensuring that duplicative or similar objectives are merged. Particular attention will

be given to creating standalone objectives that do not require narrative to define the desired outcome of the objective.

This process will be five-fold and will include (1) an evaluation of existing IRWMP elements (i.e., goals, objectives, project actions, plan-level performance measures, and regional issues), (2) collection and evaluation of objectives from IRWMPs across the state, (3) integration of the outcomes of tasks in this work plan (i.e., DAC and EJ Programs, RMS, Issues and Conflicts, RMS, and climate change), (4) input from watershed-specific work groups, and (5) input from a sub-committee focused on identification of additional regional objectives.

Following completion of the subtasks described below, an initial draft of the objectives section will be prepared. This text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 8 OBJECTIVES	
<b>Goal of Task</b>	The goal of this task is to formulate a concise and durable set of objectives that accurately reflect the RMS and the identified watershed issues. Further, to develop objectives that firmly and clearly support project development activities.
<b>Subtasks</b>	8.1 Evaluate Existing IRWMP Elements 8.2 Integrate Results of Previous Work Plan Tasks 8.3 Convene Watershed Work Groups 8.4 Identify Regional Objectives
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Compendium of objectives from IRWMPs and other regional sources</li> <li>• A series of progressively refined objectives</li> <li>• Defined qualitative and quantitative measures to enable tracking of IRWMP and objective implementation</li> <li>• Guidance to support project development activities and programmatic implementation</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$13,804 <b>Match:</b> none <b>Match sources:</b> n/a

### 8.1 Evaluate Existing IRWMP Elements

Many elements of the existing IRWMP will inform the process of revising objectives and developing quantitative and qualitative measures, including the goals, objectives, project actions, plan-level performance measures, and regional issues. Goals and objectives were fully integrated during the initial IRWMP development process, and thus will be revisited as a whole during this update. The regional issues and plan-level performance measures will be updated during Tasks 4 and 10, and the identification of objectives will be informed by both the existing and the updated issues and performance measures. Project actions will also be revisited during this process to determine if they should be moved to the project development chapter or kept in place. Further, the goal and objectives included in the mountain meadows appendix (Appendix K) will be integrated into this update process. Lastly, this evaluation will

include consideration of the existing objectives' consistency or utility in project development (particularly within the working group venue).

Goals and objectives from IRWMPs across the state will be gathered, evaluated, and collated by topic to enhance the ability of CABY members to diversify their thinking while looking at their own region.

## **8.2 Integrate Results of Previous Work Plan Tasks**

A significant number of the tasks in this work plan will directly inform the process of updating objectives, including Task 3 (DAC and EJ Programs), Task 5 (RMS), Task 4 (Issues and Conflicts), and Task 9 (Climate Change). To increase consistency within the IRWMP and ensure that plan implementation is meaningful and as clearly defined as possible, the integration of the outcomes of these tasks with the progressive refinement of the objectives will be extremely important. It will also be important to assure that all key issues have, at minimum, one corresponding objective. At appropriate intervals, concise summaries of each task's outcome will be forwarded to the watershed work groups to inform their efforts, and the PC and MC to keep them informed and reduce the learning curve when the objectives are presented to these groups for consideration (see Task 8.3).

## **8.3 Convene Watershed Work Groups**

The existing IRWMP includes an implementation action for prioritization of issues on a watershed-by-watershed basis (CABY IRWP, 2007, p. 11-38). This directive has been interpreted by the PC to include the formation of watershed work groups during the IRWMP update effort. A group will be convened for each of the CABY watersheds (i.e., Cosumnes, American, Bear, and Yuba). The work groups will submit their identified objectives and measures to the PC, and these items will become the foundation for the discussion of region-wide objectives and measures. An integrated discussion to develop region-wide objectives will not commence until all of the materials developed by the work groups have been made available. The PC will not have the ability to refuse the watershed-specific objectives. They will be able to interact with representatives from each group to ensure that local and regional objectives are consistent in language and intent. They will also develop language to bridge local and regional needs and objectives, as necessary and appropriate (see 8.4, below).

It is assumed that a minimum of five meetings will occur within each watershed with the express purpose of identifying watershed-specific issues and conflicts, prioritizing those issues, developing draft objectives to address the identified issues, and initiating a watershed-wide objective identification effort. The work groups involved in this effort will take into account the outcomes of Tasks 8.1 and 8.2, and will consider the Basin Plan, 20x2020 Water Conservation Plan, and CWC §10540(c) when developing objectives. Methodologies for quantifying objectives will also be identified as a result of this task.

## **8.4 Identify Regional Objectives**

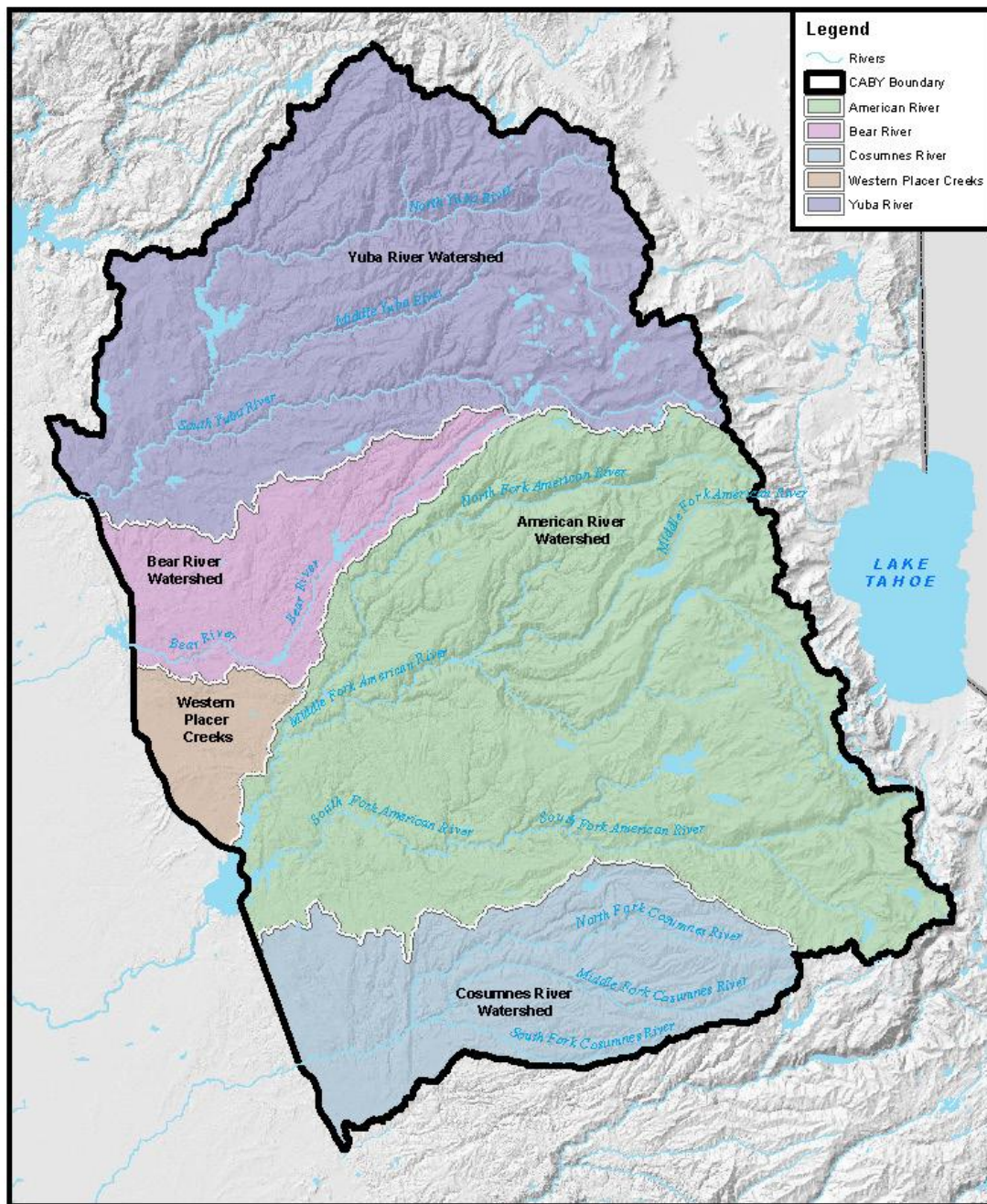
The initial step in identifying regional objectives will be to review and evaluate the objectives created by the watershed work groups. A subcommittee will be formed, made up of at least one representative from each watershed, as well as an equal number of CABY members, to initiate the process of developing

regional objectives. The regional objectives will be based on the objectives developed by the watershed work groups, as well as the objectives in the existing IRWMP and the objectives gathered during Task 8.1.

Once the watershed-based work groups have completed their objectives identification process, the results will be submitted to the PC for initial comments and discussion. The subcommittee will produce an initial set of objectives and measurement criteria in response to the conversation held at the PC. A set of draft objectives and measurement criteria will be forwarded to the PC upon completion of the sub-committee work effort.

As with the watershed work group effort, the objective development process will be informed by the Basin Plan, 20x2020 Water Conservation Plan, and CWC §10540(c). The subcommittee will resolve any mutually-exclusive or contradictory language within the watershed-specific objectives.

The final product of the subcommittee will be referred to the PC for debate and finalization. Once the objectives and measurement criteria are finalized, the IRWMP section will be drafted.



CABY Watershed Boundaries



FIGURE 8-1

## **TASK 9 CLIMATE CHANGE**

**OVERVIEW:** As required by the Prop 84 IRWM Grant Program Guidelines, the updated CABY IRWMP will address both adaptation to the effects of climate change and mitigation of GHG emissions. The strategy for addressing climate change in the context of the IRWMP is described in this task and includes the use of modeled scenarios to complete a vulnerability analysis and identify possible adaptation strategies.

Green House Gas (GHG) emissions will be addressed during both the identification of regional vulnerabilities and the development of adaptation strategies. This evaluation will be on a regional and cumulative level. The CABY region's water is hard working—it supplies hydroelectricity, is piped across watersheds and between elevations, and moves in and out of canals and pipes and other conveyance systems. Some aspects of the operation and management of water supply are energy intensive, others actually generate electricity. As a source area for water that is exported throughout the state, the capacity of CABY to minimize GHG will be an important consideration and this aspect of the regional water management strategy will be evaluated. The process for disclosing and considering GHG emissions when developing projects and choosing between project alternatives is discussed in Task 10, Project Development.

Following completion of the subtasks described below, an initial draft of the climate change section will be prepared. The section will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.



TASK 9   CLIMATE CHANGE	
<b>Goal of Task</b>	The goal of this task is two-fold. First, to utilize state-approved modeling to inform identification of regional vulnerabilities to climate change. Second, to engage in meaningful discussion of potential adaptation strategies. Third, to coordinate with DWR climate change specialists to systematically expand the capacity of the existing CABY WEAP model.
<b>Subtasks</b>	9.1 Create Technical Advisory Committee 9.2 Collect and Synthesize Region-Specific Climate Change Data 9.3 Develop and Implement Modeling Strategy 9.4 Initial Identification of Regional Vulnerability to Climate Change Scenarios 9.5 Identify Regional Adaptation Strategies 9.6 Collaboration with DWR Climate Change Specialists on CABY WEAP Model 9.7 Public Outreach and Education
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Interim modeling runs in association with UC San Diego</li> <li>• Final TAC-directed modeling runs</li> <li>• Memoranda summarizing TAC deliberations</li> <li>• Posting of modeled data to CABY and SWIM websites</li> <li>• Identification of regional vulnerabilities under modeled climate change scenarios</li> <li>• Identification of regional adaptation strategies</li> <li>• Identification of no-regret implementation measures</li> <li>• Refined WEAP model</li> <li>• Enhanced capacity of the CABY region to model consequences of future scenarios using the improved WEAP model</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$26,480 <b>Match:</b> none <b>Match sources:</b> n/a

### 9.1 Create Technical Advisory Committee (TAC)

The aim of this task is to convene a technical advisory committee (TAC) focused on the topic of climate change. This TAC will be made up of CABY members and stakeholders who are involved with water and resource management in the region and/or a particular expertise, experience, or interest in consideration of potential climate change effects. The membership of the TAC will represent sufficient depth and breadth of perspective to effectively guide the identification of regional vulnerabilities and adaptation strategies. In order to be effective, the TAC must fully represent not only individuals with technical knowledge of climate change but also individuals with interests that would be affected by the outcome of the evaluation.



## **9.2 Collect and Synthesize Region-Specific Climate Change Data**

A variety of federal and state and local agencies within the region have considered the potential impacts of climate change on the resources and facilities for which they have management responsibility. These evaluations have produced policy statements, preliminary vulnerability assessments and, in some cases, initial identification of adaptation strategies. All of these documents and, where possible, the supporting background documentation will be collected to inform the IRWMP climate change analysis.

The TAC, supported as necessary by CABY staff, will evaluate the collected data, as well as the primary documents identified in the Prop 84 IRWM Grant Program Guidelines and the Climate Change Clearinghouse documents. This evaluation will not be exhaustive in nature, but rather will serve to summarize the available data in such a way that the TAC can determine which documents, reports, and/or data to draw on during the course of their evaluation. These documents and data will be made available on the CABY website and on the SWIM site, where appropriate (see Task 12).

## **9.3 Develop and Implement Modeling Strategy**

With assistance from the University of California, San Diego, CABY staff has developed the capacity to calculate the impacts of predicted climate change scenarios on a variety of key criteria such as temperature, precipitation, base flow, and runoff (see Attachment 1). The Variable Infiltration Capacity (VIC) Macroscale Hydrologic Model has been applied to many watersheds, including the Columbia River, the Ohio River, the Arkansas-Red Rivers, and the Upper Mississippi Rivers, and has been formally approved by the State of California. It measures in 1/8 degree resolution and provides information for every month from 1950 to 2099.

The data can be prepared for any of these criteria for any year utilizing any of the six state-approved computer models, each of which has a high and low emission component, resulting in a total of 12 different modeling runs for any single criteria. After consultation with the TAC to identify a preliminary set of high-priority criteria, a representative sample of the available modeling runs, by topic and year, will be generated. Based on these sample runs, the TAC will be able to identify both specific criteria and specific years that they wish to see modeled to provide a basic understanding of the possible variability of future climate change scenarios.

After reviewing the preliminary samples, the TAC will direct CABY staff to run the models under a high and low emission assumption, utilizing the criteria that the TAC has determined is most critical to developing a useful set of future scenarios. The output of these modeling runs will be used to determine “worst case,” “best case,” “middle range,” and “no change” scenarios for each identified criteria. A 20-year planning horizon will be of primary concern, however, modeling for future years beyond the horizon may be deemed desirable by the TAC. There is also an expressed interest in modeling historic data (’50s through ’80s) as well as the last two decades for comparative purposes; thus, a representative set of modeling runs will be completed for the requested years. In this way, the TAC will be able to develop an evaluation that is scenario-dependent rather than model-dependent, resulting in a greater capacity to predict regional vulnerabilities.

#### **9.4 Initial Identification of Regional Vulnerability to Climate Change Scenarios**

The TAC will use the data developed in Task 8.3 to conduct a vulnerability analysis to more fully understand the potential impacts of the predicted changes. It is anticipated that the process will include evaluation of the model runs generated during Task 8.3 and/or model runs prepared at TAC direction during this vulnerability analysis stage. Based on the outcomes of the predicted scenarios, the TAC will develop a set of criteria to use in predicting and quantifying (where possible) regional vulnerabilities. These criteria will need to reflect not only the science of climate change and its impact on natural systems, but also the varied perspectives of the collateral results of climate change on human and socio-economic resources. Additionally, measures to identify the impacts of climate change on water system operation and capacity will need to be evaluated. Once a set of criteria has been developed, then the scenarios and modeling runs to support necessary discussions can be completed.

The TAC discussion of vulnerabilities will, then, include consideration of climate change on natural systems and “green infrastructure”, man-made infrastructure, social and economic conditions, diverse users groups (e.g. agriculture, public institutions, recreations, etc.), water supply operations and management/delivery, the capacity of the region to serve growing populations while continuing to export water, and other similar concerns.

The analysis is not intended to direct or support individual or specific management policies, procedures, or regulatory decisions. Instead, it will be intended to anticipate future climate change scenarios and vulnerabilities, thereby supporting a general evaluation of potential adaptation strategies. The product of this work effort will be a report that will be presented to the PC for review and comment. The report will be refined based on PC comments and then will become a technical appendix to the IRWMP.

#### **9.5 Identify Regional Adaptation Strategies**

The development of regional adaptation strategies will begin once the preliminary vulnerability analysis has been undertaken. Discussions of possible future scenarios inevitably lead directly to discussion surrounding management and policy-level implications of those predicted changes. Recognizing the closely linked nature of predicted impacts and mitigation and/or adaptation, these iterative discussions within the TAC will be tracked until such time that a more focused evaluation become possible (likely once the draft vulnerability document is being prepared).

Correlating possible, predicted, future scenarios to possible, available, future adaptation measures is not an exact science. Additionally, the consequences of predicted scenarios and available mitigations being presented in a written form must be anticipated. For this reason, the TAC will report regularly to the PC to ensure that all of the interests in the region that might be affected by the climate change discussion are directly involved in identifying future vulnerabilities and available adaptations.

Because the evaluation is at a program-level of detail, the discussion of adaptation strategies will be similarly general in nature. The goal of the adaptation strategies evaluation will be threefold: 1) To engage regional entities with management responsibilities in a collective discussion at long-term

collaboration, to minimize impacts of climate change; 2) To involve a diverse set of perspectives in determining possible future actions, and; 3) To ensure that all of the interest potentially affected by climate change have a consistent opportunity to participate in the identification of future conditions and available mitigations.

Per the Prop 84 IRWM Grant Program Guidelines, the outcomes of the vulnerability analysis will be integrated into the region description section (see Task 4). However, because of the potential diversity of opinions on the subject, a separate climate change section describing both the vulnerabilities and the potential adaptation measures within the region will be included in the IRWMP to enable a reader to clearly understand the analysis and the conclusions.

#### **9.6 Collaboration with DWR Climate Change Specialists on CABY WEAP Model**

CABY is the only IRWMP in the state that has coterminous plan area and developed WEAP model boundaries. As part of the existing IRWMP, an EPA-funded WEAP model for the entire CABY region was prepared. Following completion of this regional model, EID invested significant additional time and energy in providing detail and, therefore capacity, to the model. At this point in time, the data available to the model for the PCWA and NID service areas is much less detailed than the EID service area.

Conversations with DWR climate specialists serving the CABY region indicate that direct collaboration between various CABY members and DWR specialists can result in greatly increased functionality and capacity of the CABY WEAP program. CABY PC members, having been educated on the capacity of the WEAP model, have developed a series of strategic questions that could be answered if the WEAP model were more fully developed. The CABY WEAP model has the potential to serve as an important example of how computer-aided decision making on climate change issues can directly benefit water and land use manager decision making. The outcome of this task would be the progressive refinement of the CABY WEAP model, based on ongoing technical discussions between key CABY members and DWR specialists.

#### **9.7 Public Outreach and Education**

Outreach on the climate change issue will focus on three primary constituencies: 1) agencies (local, state, and federal); 2) organizations and interest groups; and 3) the general public (including Hispanic community members). The outreach, including specific strategies and materials, will be undertaken by CABY staff and coordinated by the PC and TAC. Overall, this task will result in dissemination of information developed by the TAC, provision of educational and technical materials, and a clear method to solicit suggestions and participation.

### **TASK 10 PROJECT DEVELOPMENT**

#### **OVERVIEW: EXISTING PROJECT DEVELOPMENT AND REVIEW STRUCTURE**

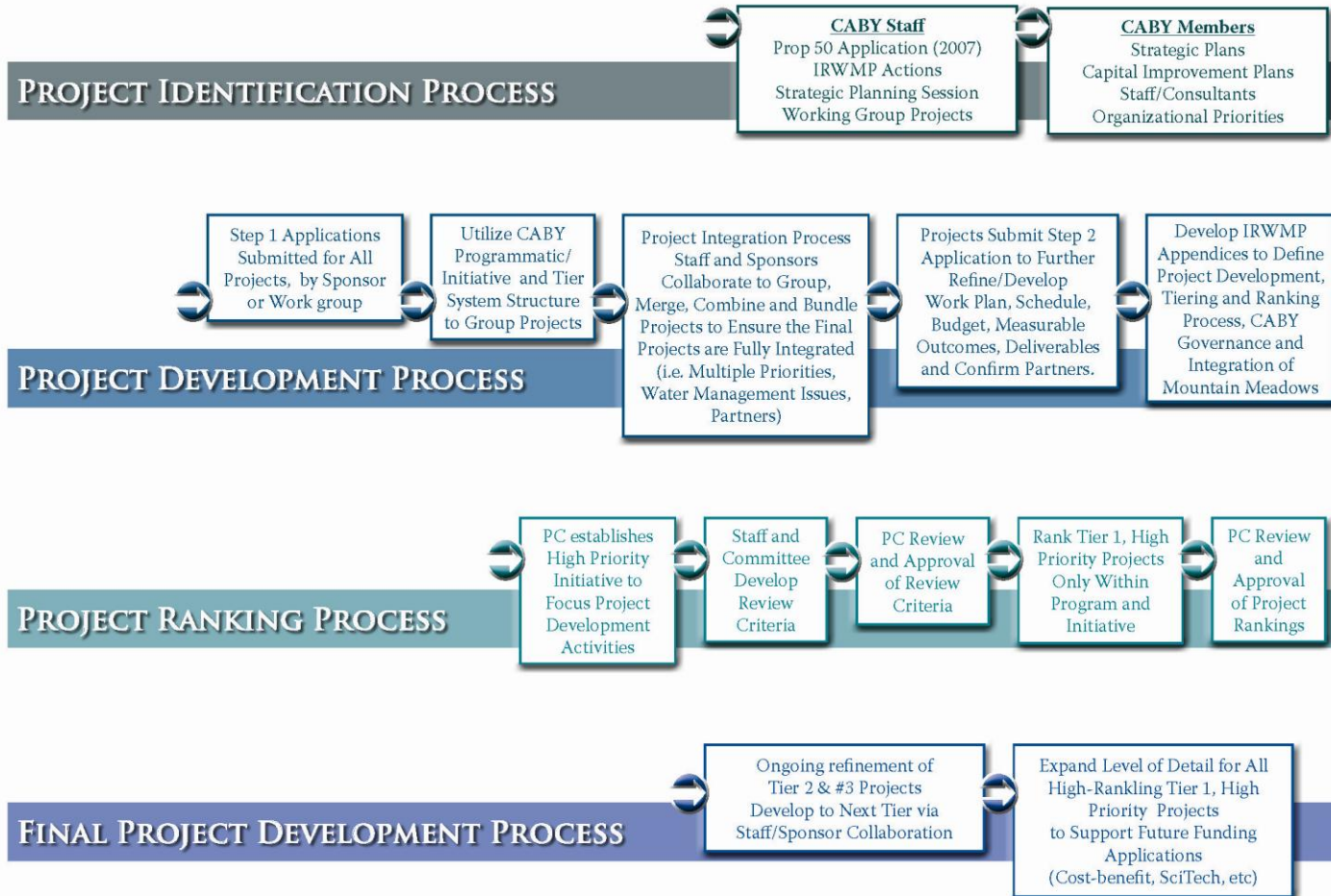
As part of the preparation of the existing IRWMP, a total of 13 Tier 1 projects (ready-to-proceed, consistent with water management strategies, responsive to state priorities, and consistent with CABY goals and objectives) and 12 Tier 2 projects (not yet ready-to-proceed) were identified. Nine of the Tier 1 projects were submitted for funding during the Prop 50 Step 2, Round 2 Implementation Grant Process.

Several of these projects have gone on to obtain partial or complete funding by non-bond sources with the assistance or collaboration of CABY staff.

As stipulated in the existing IRWMP, regular updates of the plan, including an annual “call for projects,” were accomplished beginning in mid-2008. Upon completion of the Prop 50 implementation grant application in January, 2008, the PC directed CABY staff to redesign the project application process and the project ranking and review criteria, and to develop a programmatic structure to serve as an organizing principle for ongoing project design. As a result of these ongoing efforts, CABY developed a project development and review structure as shown in Figure 10-1. This structure focuses on developing projects in three ways: (1) Development of projects by individual sponsors/members; (2) Development of regionally-oriented projects through topical work groups (e.g., Water Work Group, Working Landscapes Work Group, Western Placer Creeks Work Group, Indigenous Community Work Group); and (3) Development of projects during quarterly PC meetings.

FIGURE 10-1

## CABY PROJECT IDENTIFICATION, DEVELOPMENT AND RANKING PROCESS



Regardless of the source of the project idea, consideration of projects for inclusion in the IRWMP begins with a project application. Upon receipt of the project application, CABY staff then works to develop multiple partners, integrate multiple objectives and issue focuses, and generate progressively refined project materials. The project tier structure has remained intact with the addition of a Tier 3 (conceptual) project type. The PC has made the commitment to advance each Tier 1 project to “application ready” status, ensuring that all Tier 1 projects can be bundled or packaged for emerging funding opportunities without a significant degree of effort. This project development process has been deemed highly successful and will continue largely intact through the IRWMP update process. Revision of the project review and ranking criteria will be a key deliverable of this work plan.

The CABY project application and development process greatly facilitates the integration of projects. In some cases, a single Step 1 application for a conceptual project has resulted in the development of a region-wide, multi-project, multi-objective, multi-stakeholder project. In other cases, Step 1 applications for apparently unrelated projects have resulted in the integration of multiple projects into a single project with multiple benefits and partners. For this reason, it has been extremely important for CABY to accept projects at all status levels (i.e., from conceptual to ready-to-implement), and then work with project sponsors, starting first with projects that have been deemed high priority by the PC, to develop materials such as work plans, schedules, budgets, economic feasibility evaluations, and performance measures. Task 10 has been intentionally designed to perpetuate this integration activity.

#### *ONGOING PROJECT DEVELOPMENT AND IDENTIFICATION OF POTENTIAL PROJECTS*

CABY successfully anticipated the project review standard and has, beginning in 2008, systematically improved its project development process to the point that the “application ready” projects are already consistent with the identified plan standards and thus suitable for integration into the updated IRWMP. As previously stated, CABY has been engaged in project development in a continuous manner since adoption of the last IRWMP. CABY currently has 18 projects that have been developed to “application ready” status with an additional 28 in Tier 2 or Tier 3.

The CABY project development process as currently configured consists of the following components: submittal of a project application (either from an individual sponsor or a work group), determination of readiness to proceed, designation of an appropriate tier for the submitted project (Tier 1 – ready to proceed, Tier 2 – not yet ready-to-proceed, Tier 3 – conceptual), identification of DAC status, provision of appropriate level of technical support for Tier 1 projects only, and designation of projects as ready-to-proceed. Once projects are deemed ready-to-proceed they are evaluated and ranked within the program framework. This process will remain largely intact, with exceptions noted in subsequent tasks. Some projects have already been designated as Tier 1, but are not yet “application ready.” CABY staff will complete the development process for these projects using existing methods and strategies and based on available funds.

In October, 2010, CABY will issue its annual call for projects. The Step 1 application provided during this process will be updated to include information from the Prop 84 IRWM Grant Program Guidelines. These

new projects will be subject to the revised project review process identified in subsequent tasks, as they will serve as guinea pigs for development of any new processes, procedures and methods developed to ensure compliance with plan standards. The Step 1 application will allow conceptual projects, partially developed projects, and fully developed projects to be submitted to the group for development and consideration. The CABY tier process has been specifically designed to take projects from concept to fully developed status.

CABY staff has developed a strong capacity to identify opportunities for project integration both within and between programs. These integration activities will continue with existing projects within the CABY project development system, as well as with the new projects resulting from the October call for projects.

The work plan has been specifically structured to ensure that sufficient information is available from key tasks to inform the progressive refinement of projects, thereby avoiding development of projects that are not consistent with the final objectives, while ensuring adequate time for project development.

Following completion of the subtasks described below, an initial draft of the project development and implementation section will be prepared. The section will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 10   PROJECT DEVELOPMENT	
<b>Goal of Task</b>	The goal of this task is to update and refine the CABY programmatic structure, refine criteria for ranking and inclusion of projects in IRWMP, design and delivery of a strong and productive project development process (with particular attention to the needs of DAC and EJ constituents), to develop a number of projects to application-ready status, and finally to rank and include regionally important projects in the IRWMP.
<b>Subtasks</b>	10.1 Revise Programmatic Structure 10.2 Refine Criteria for Inclusion of Projects in IRWMP 10.3 Develop Criteria for Ranking Projects in IRWMP 10.4 Project Development Program 10.5 Project Evaluation
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Revised programmatic structure</li> <li>• Criteria for inclusion of projects in IRWMP</li> <li>• Project ranking criteria</li> <li>• Revised Step 1 application</li> <li>• Capacity to complete project applications via CABY website</li> <li>• Technical support to work groups, individual sponsors, DAC and EJ community</li> <li>• Identification of additional round of CABY projects</li> <li>• Technical support to project sponsors to create project-specific webpage for their projects</li> <li>• Final list of ranked projects for inclusion in IRWMP (meeting both plan standard and CABY-designed criteria)</li> <li>• Creation of CABY list of project organized by program topic</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$70,690 <b>Match:</b> \$9,143 <b>Match source:</b> Consultant (CABY staff)

### 10.1 Revise Programmatic Structure

During its 2009 IRWMP update cycle, CABY implemented a programmatic structure to foster a more organized and systematic project development and ranking process. While this structure has worked well, the PC has determined that the existing structure needs to be reconsidered and potentially expanded to accommodate both the successful work group and project development activities that have come to characterize the CABY process. The programmatic structure will be developed iteratively as subsequent tasks bring progressive refinement to the project development process.

### 10.2 Refine Criteria for Inclusion of Projects in IRWMP

The Prop 84 IRWM Grant Program Guidelines have identified 13 individual criteria that must be employed when considering projects for inclusion in the IRWMP. These criteria, in the aggregate, require that each project develop a substantial amount of data to even be considered for inclusion in an IRWMP.



CABY's initial project selection criteria were relatively direct and required only that the project be proposed by a CABY member and address one or more IRWMP goals, objectives, and water management issues. This process was refined to include the tier strategy described in the overview of this task. This strategy has been essential to the project development process and has become a vehicle for project integration. The process of project development that CABY has put in place is the only avenue by which projects can ultimately meet the extensive mandated inclusion criteria.

Thus, while CABY will work to ensure that the criteria described in the project review plan standard of the guidelines are incorporated into its process, it will also continue to implement and refine the processes that have served stakeholders, and the organization at large, so well.

CABY staff, supported by the PC, will utilize the 13 mandated project review factors to develop an updated project review form and process for the formal inclusion of projects in the IRWMP. An evaluation of the criteria utilized by other IRWMPs across the state for inclusion of projects within their documents will be evaluated as part of this task.

CABY has devoted considerable resources to developing projects to a ready-to-proceed, application-ready status. As a result, all of our current Tier 1 projects meet the review factors currently identified in the Prop 84 IRWM Grant Program Guidelines. This proves that the existing CABY process has the demonstrated capacity to develop projects from a conceptual level to ready-to-proceed status. The exception to this is the substantial environmental review or extensive permitting required by some projects. Many CABY projects that would be otherwise be viable candidates for inclusion in the plan, are not yet Tier 1 projects because the project sponsor has insufficient resources to complete these two ready-to-proceed components. The Sierra Nevada Conservancy has funded several CABY project environmental assessment and/or permitting activities. However, these components will continue to be limiting factors for large-scale infrastructure and natural resources projects and improvements across the region.

### **10.3 Develop Criteria for Ranking Projects in IRWMP**

The updates made to the IRWMP in 2009 stipulated that projects would be ranked within their identified program, rather than being ranked against all other projects in the system. This strategy will continue.

As additional program areas are identified, existing projects will be re-sorted and re-ranked. CABY has devoted considerable time to refining the project ranking criteria. However, there is consensus that the criteria should undergo yet another round of refinement, particularly in light of the new review factors and IRWMP inclusion criteria mandated in the Prop 84 IRWM Grant Program Guidelines. At this point in time, CABY does not propose to prioritize program areas. The CABY PC establishes a high-priority project development of program area on a bi-annual basis (see Task 10.4, below), which serves to focus staff time and energy on developing implementation projects. In addition, the possible prioritization of objectives will assist in the overall ranking of projects.

The process for disclosing and considering GHG emissions when developing projects and choosing between project alternatives will be discussed and will be included in the project ranking criteria.

#### **10.4 Project Development Program**

The CABY project development process relies almost exclusively on input from CABY members – via work groups, the PC and individual Step 1 applications. While CABY staff has generated several project concepts that have ultimately led to Tier 1 projects, the majority of projects are developed within the CABY membership. This basic strategy is expected to continue.

As a result of the call for projects in October, 2010, new projects, as well as projects submitted in 2011 and 2012, will need to be evaluated to determine their level of development (i.e., conceptual, ready-to-proceed) and capacity for integration with other projects. A selected subset of Tier 1 projects will be developed to ready-to-proceed status, with direct technical assistance of CABY staff. Tier 2 and Tier 3 projects will be supported in their evolution to Tier 1 by the CABY work group and PC structure.

The CABY PC has an extraordinary depth of experience and expertise in a wide variety of fields. To date, the project development process has not drawn heavily on this expertise. A key change in the project development process will be the development of project assistance teams whose function will be to provide support to project sponsors in the progressive refinement of their project application materials. Additionally, several of the PC meetings will include a project development workshop element that will focus on group assistance to individual CABY members in advancing their Tier 1, 2, or 3 projects to a higher level of completion. This strategy will increase opportunities for identifying partners and integrating projects.

Some projects will be referred to a topic-specific or location-specific work group for evaluation and further development. Other projects, particularly those submitted by DACs or through the EJ program, will be directed to staff to provide detailed and ongoing technical assistance, including the development of work plans, schedules, budgets, economic evaluations, and performance measures. Other project sponsors will have the capacity to develop their own projects in consultation with CABY staff.

As part of this task, CABY will continue to perform regular updates of Appendix I (the project appendix that is updated regularly to reflect new projects submitted to the IRWMP) until the final updated IRWMP document is prepared, at which point these appendices will be integrated into the document.

Additionally, the PC has indicated a preference for designating high-priority focus areas. These high-priority areas are programmatic in nature and add an additional dimension of intensity and integration to the project development process. For instance, the 2009 high-priority focus was drought-relief and water use efficiency and conservation. As a result, the projects that were deemed high priority by the PC will be submitted in the first Prop 84 Implementation Grant Cycle. The high-priority topic for the 2011/2012 timeframe will be designated by the PC in early 2011. Projects that are consistent with this high-priority focus will be given a greater level of attention by CABY staff in the process articulated above.

### **10.5 Project Evaluation (IRWMP Inclusion and Ranking)**

The projects developed in this task will be evaluated for inclusion in the IRWMP and will also be ranked within their appropriate program area in the final four months of the planning grant cycle. In both cases, the criteria developed in this task will be used to review these projects. Following the established procedure, CABY staff will first apply the appropriate criteria. The results of that effort will be forwarded to the PC for initial comment. The document will then be referred to the MC. Revisions will be made based on comments received from the MC. Then, the suggested list of projects for inclusion and the ranking of those projects will be resubmitted to the PC for review and comment. Following completion of this cycle, the draft IRWMP section text will be created.

### **TASK 11 PLAN AND PROJECT PERFORMANCE**

**OVERVIEW:** The development of clearly written performance measures with quantifiable outcomes and outputs will be a key factor in assessing the overall success of both plan and project implementation. The existing IRWMP has identified a variety of measures for use in evaluating plan performance. Additionally, the CABY project development process includes development of specific performance measures for each project. In the case of plan performance, these measures will need to be updated to reflect the various updates of the plan itself as well as the evolving sense of the PC and stakeholders as to what constitutes “success” with respect to plan implementation. In the case of project-level performance measures, a variety of regional organizations across the state continue to develop ever more specific and reliable measures for project performance. These measures, as well as the experience of CABY members following project implementation, will be evaluated as part of this task.

Following completion of the subtasks described below, an initial draft of the plan and project performance text will be prepared. The text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

<b>TASK 11   PLAN AND PROJECT PERFORMANCE</b>	
<b>Goal of Task</b>	The goal of this task is to enable the CABY organization to effectively evaluate the performance of the plan over time and to ensure that individual project performance measures will accurately measure and report the outcomes of implemented projects.
<b>Subtasks</b>	11.1 Collect and Evaluate Performance Measures from Existing IRWMPs 11.2 Evaluate Outcomes of CABY's Existing Performance Measures and Monitoring Processes and Activities 11.3 Develop Refined Performance Measures for IRWMP Implementation 11.4 Develop Refined Performance Measures & Monitoring and Activities for Project Implementation
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Compendium of performance measures from IRWMPs and organizations around the state</li> <li>• Plan-specific performance measures</li> <li>• Project-specific performance measures</li> <li>• Identification of reporting protocols and methods</li> <li>• Posting of monitoring requirements on CABY website</li> <li>• Creation of protocols and procedures for posting project-specific monitoring data and outcomes on CABY and SWIM websites</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$7,620 <b>Match:</b> none <b>Match sources:</b> n/a

### **11.1 Collect and Evaluate Performance Measures from Existing IRWMPs**

CABY staff will collect and collate performance measures from IRWMPs across the state. These measures will be organized and collated by CABY program and will serve as a starting point for expanding and refining the measures used to evaluate plan performance. In a separate but parallel exercise, CABY staff will collect and collate project-specific performance measures submitted to the state, both as part of the Round 1 and 2 Prop 50 applications and the Prop 84 applications (via the FAAST and BMS websites). These performance measures will be organized by project type. In addition, the project-specific performance measures will be forwarded to all CABY members and stakeholders to assist in their development of application materials, as well as to the watershed work groups.

### **11.2 Evaluate Outcomes of CABY's Existing Performance Measures and Monitoring Processes and Activities**

The CC, PC, and staff will collaborate to perform an organizational self-assessment utilizing the support of a graphic facilitator. This self-assessment will use the performance measures currently identified in the IRWMP and will also consider a preliminary identification of new or refined performance measures based on the outcome of this self-assessment. The outcomes of this exercise will serve as a starting point for refining IRWMP performance measures (see Task 11.3 below). CABY members whose projects have been successfully funded will participate in a parallel process of evaluating the utility and success of their monitoring process, measures and activities. In addition to evaluating the results of CABY member

project monitoring efforts, the Sierra Nevada Conservancy has developed an extensive set of suggested performance measures to guide its project applicants. The SNC performance measures will be included in the evaluation of meaningful project monitoring activities and performance measures (see Task 11.4 below).

### **11.3 Develop Refined Performance Measures for IRWMP Implementation**

Using the outcome of Task 11.2, CABY staff and the MC will collaborate to refine the IRWMP's performance measures to ensure that they reflect the outcomes of the self-assessment and the other IRWMP update activities, such as new objectives. Staff will refine the outputs of this work effort and present the suggested performance measures to the CABY PC, which will review and critique the suggestions. A final set of performance measures will then be prepared and forwarded to the PC for final review and approval.

### **11.4 Develop Refined Performance Measures and Monitoring and Activities for Project Implementation**

As part of their project and objective development efforts, individual work groups, with support from CABY staff, will develop a common sense of monitoring strategies and options, including a discussion of the plan standard requirements (i.e., what will be monitored, how monitoring will be performed, and how the outcomes of the monitoring will be tracked). A set of suggested project-specific monitoring protocols and activities will be developed based on these discussions. The protocols will be reviewed by relevant work groups prior to revision and submittal to the PC for review and approval.

## **TASK 12 DATA MANAGEMENT**

**OVERVIEW:** CABY recognizes the importance of data collection efforts and the management of that data in the context of IRWM. The CABY PC and CC have had many discussions on the topic of data management and the creation of a data management system (DMS). CABY has reached the conclusion that the creation and maintenance of a formal database within the existing IRWMP structure is too costly and complex and therefore infeasible. As a result of these internal discussions, CABY's DMS will consist of three integrated elements: (1) the Sacramento River Watershed Program's Sacramento Watershed Information Module (SWIM), (2) updating the CABY website, and 3) development of criteria for collecting and provided data to state databases.

The development of quality assurance protocols, as well as processes and procedures for data sharing, methodologies to ensure consistency with state databases, and data collection protocols, as appropriate, will be developed as part of this task.

Following completion of the subtasks described below, an initial draft of the data management section will be completed. The section will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 12   DATA MANAGEMENT	
<b>Goal of Task</b>	The goal of this task is to complete data collection for the American and Cosumnes River watersheds and post available data to the SWIM website. Also to engage in a significant update to the CABY web portal to increase functionality. Finally, to develop rigorous protocols to ensure that CABY project monitoring data is compatible with applicable state databases.
<b>Subtasks</b>	12.1 Ongoing Data Collection and SWIM Update 12.2 Update CABY Website 12.3 Develop Criteria for Collecting and Providing Data to State Databases
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Data for American and Cosumnes watersheds</li> <li>• Updated and fully functional CABY web portal</li> <li>• Criteria for posting and distribution to CABY members and sponsors identifying data collection protocols</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$44,260 <b>Match:</b> none <b>Match sources:</b> n/a

### 12.1 Ongoing Data Collection and SWIM Update

This task consists of augmenting CABY's information on the SWIM site, and training CABY stakeholders in SWIM data upload procedures (for data collected in the future).

SWIM is an online resource library for watershed and conservation-related data and documents. It includes a suite of online data discovery, document management, and GIS mapping tools. One of SWIM's core functions is to harvest spatially explicit project information from a wide variety of groups for submission to the California Environmental Information Catalog (CEIC) at the Resources Agency. This link shows example documents already collected by the SWIM project:

<http://ceic.resources.ca.gov/catalog/SacramentoRiverWatershedData/>

#### *Augmenting CABY's Data on the SWIM Site*

CABY partnered with SRWP in late 2009 and early 2010 to input CABY region data into SWIM. As part of this effort, the vast majority of available data for the Yuba and Bear River watersheds was collected and submitted to SRWP. However, this data collection needs to be duplicated for the American and Cosumnes River Watersheds.

SRWP will develop protocols and assist in the transfer of the additional CABY IRWM documents, data, and GIS information into SWIM. The data transfer protocol will establish methods for naming, organizing, attributing, establishing distribution permissions, and transferring files to the SWIM. SRWP will develop a spreadsheet template that CABY IRWM members can use to expedite the process of attributing and submitting their documents.

Most of the original data and documents will be hosted on the SWIM website. However, some proprietary data collected under private funding may appear in SWIM in abstract form only. In these cases, SWIM will provide contact information for the source organization. In addition, GIS data needs

proper spatial referencing and accurate source metadata before it can be integrated into the existing SWIM GIS system. SRWP GIS consultants will work with CABY representatives to ensure that GIS data is properly projected and adequately documented. GIS data will be integrated by SRWP into the SWIM Digital Atlas.

#### *SWIM Training for CABY Stakeholders*

SWIM provides a place for multiple organizations to map their projects and post documents and data—it can play an invaluable role in facilitating coordination among groups. However, for it to be useful, many people must set aside time to map, describe, and share their documents.

SRWP will develop and present a one-hour SWIM training session to the CABY PC. The presentation will use SWIM's mapping and document management tools to browse, discover, and share resource-related information. Other topics will include use of SWIM's online GIS Mapmaker program, and data discovery using the SWIM Geofinder application.

Additionally, SRWP will provide a SWIM trainer to CABY team members in Nevada City, Placerville, and Auburn. It is anticipated that the SWIM trainer will meet with approximately five CABY team members at each location. The major emphasis of this training will be to set up user accounts for team members, ensuring that they have the access and understanding to use SWIM. Each onsite training session will be approximately 2 hours in length.

## **12.2 Update CABY Website**

The CABY website was created in 2007. It is a web-based system that provides both public-facing (web site) and internal (intranet) functionality for the IRWMP community. The proposed IRWMP update to achieve compliance with the Prop 84 IRWM Grant Program Guidelines will result in the creation of a wide variety of deliverables, all of which will need to be posted on the site and many of which will actually require new capabilities within the site. A recent survey of CABY members has made it clear that the site as currently configured does not meet the needs of the members, stakeholders, and the requirements of the existing IRWMP.

Under this task, the site's functionality will be updated so that it can fully serve the CABY membership. Tools will be added to the site so that it can function as an online library for organizing all of the documents and digital resources created and collected by the group. It will also provide collaboration tools such as online calendaring and meeting tools. More advanced functionality will also be incorporated into the site's structure, including a projects database, multimedia, and a more user-friendly interface.

Project sponsors will be able to add their projects by logging in to the website and filling in a form with information such as title and description, keywords, location, and participating organizations and individuals. The list of available fields, or schema, will be based on the schema developed for the Bay Area IRWMP. This schema will be used as a starting point and extended with other fields as needed.

Inside the project's workspace it will be possible to add other types of content such as documents, reports, photos, videos, news items, and more. The project area can have both public and internal components.

The website design sub-consultant will take primary responsibility for the technical aspects of website design and launch. CABY staff and the PC will direct the consultant as to the functions, attributes, and aesthetics of the web site. Content for the website will be generated by CABY staff, PC members, and, where appropriate, stakeholders. Additionally, technical data for the site will be provided directly or via links by PC members and stakeholders.

### **12.3 Develop Criteria for Collecting and Providing Data to State Databases**

The integration of CABY project-specific and regional data into relevant state databases has not yet been implemented. A technical advisory committee will be convened to identify specific protocols, procedures, and methods for data collection. If necessary, personnel from relevant state agencies will be invited to attend to ensure that the protocols developed during and after the meeting are fully compliant with their requirements. There is a direct nexus between this task and Task 11, Plan and Project Performance.

It is unlikely that CABY members will have the resources to reformat or significantly reorganize existing data. However, in every case where the available data is deemed suitable, that data will be transferred to the relevant database.

Using the protocols and procedures developed by the technical advisory committee, CABY will institute a formal process for systematic transfer of relevant data to appropriate state databases. As part of this task, CABY will develop a policies and procedures manual to guide all future data collection and dissemination to state agencies.

## **TASK 13 FINANCE**

**OVERVIEW:** CABY fundraising activities focus on two primary needs. The first is funding to support the CABY organization. The second is to provide funding for implementation of CABY projects. While funding for the organization has been provided from 2007 through 2010 by the four largest water agencies in the region (totaling more than \$900,000), current economic conditions preclude any additional water agency funding for at least the next two years (likely through the end of 2012). Since late 2008, CABY both individually and in collaboration with its partners and member groups has pursued alternative funding from a variety of sources.

To further enhance CABY's capacity to fundraise, both for itself and for project implementation, formed a non-profit corporation, which was certified by the IRS in mid-2010 (see background section). Additionally, CABY water agency members have collaborated to produce draft joint power agreement template (JPA), which could be used if and when required to expand CABY's fundraising capacities.



The PC has determined that an organized and coherent fundraising and financing strategy must begin with the development of a fundraising plan for the organization, taking into account both plan-level and project-specific funding. Following preparation of the draft fundraising plan by staff in consultation with individual CABY members and organizations, the document will be presented to the PC for review and critique. This evaluation will be particularly important because all of the CABY PC members have extensive experience in fundraising, either through foundations or rate payer and assessment district financing. Several outside experts in financing of public improvements and non-profit programs and projects will make presentations at this meeting and participate in the discussion.

Following completion of the subtasks described below, the consultant will complete an initial draft of the finance text. The text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 13   FINANCE	
<b>Goal of Task</b>	The goal of this task is to identify sustainable funding strategies for both the CABY organization and implementation of CABY projects.
<b>Subtasks</b>	<b>13.1</b> Research Available Funding Sources <b>13.2</b> Develop Fundraising Plan <b>13.3</b> Implement Fundraising Plan
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Identification of diverse funding sources for CABY projects and to support the organization</li> <li>• Fundraising plan identifying diverse funding sources</li> <li>• Clear and strategic measures for implementing suggestions identified in the fundraising plan</li> <li>• Enhanced relationships with governmental and philanthropic vendors, raising the CABY profile statewide and nationally</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$11,180 <b>Match:</b> none <b>Match sources:</b> n/a

### 13.1 Research Available Funding Sources

CABY has already developed a research strategy for identifying alternative funding sources, including private and family foundations, state and federal agencies and programs, and corporate entities. CABY also makes regular use of the SNC fundraising information webpage and the grants.gov email service. Additionally, CABY is increasingly partnering with CABY members to pursue joint funding, primarily from foundation sources. While these efforts will continue, the development of a fundraising plans (see Task 13.2, below) is a necessary next step to ensure long-term, sustainable funding.

### 13.2 Develop Fundraising Plan

The Prop 84 Planning Grant PSP has identified a variety of possible funding sources. However, in the current financial climate, raising rates, dedicating operating funds, instituting new taxes or assessments, negotiating private loans, or issuing local bonds is increasingly difficult, if not, in many cases, impossible.

Foundations, corporations, and government agencies are also under increasing financial pressure and have reduced their funding offerings either in terms of frequency or dollar value.

Taking into account this challenging financial climate, the fundraising plan will evaluate the “cost per dollar raised,” in addition to other factors to determine a viable competitive fundraising strategy, both for the CABY organization and its members projects. Fee-for-service and other similar strategies will also be evaluated as part of this effort.

Across the CABY region, identifying and guaranteeing sustainable funds for project operation and maintenance (O&M) is increasingly difficult. It is clearly in our sponsors’ best interest to identify sources of O&M funding to ensure that the investment of taxpayer dollars in CABY region projects is appropriately managed. Creative approaches to identifying and pursuing fund in support of O&M will be evaluated utilizing the experience of organizations outside of California who have been successful in similar endeavors.

### **13.3 Implement Fundraising Plan**

Based on the roles and responsibilities identified in the fundraising plan, CABY staff and CC, and PC members will collaborate to implement the fundraising plan. Staff will provide administrative support, as well as coordination support to ensure that targeted sources are recruited in an organized and systematic manner. This coordination will also ensure that CABY organization and/or project specific grants do not end up competing with members for funding.

## **TASK 14 IMPACTS AND BENEFITS**

CABY staff in conjunction with the MC and the PC will identify the potential impacts and benefits of plan implementation. This section will be prepared toward the end of the project cycle to ensure that all aspects of the plan are included in the impacts and benefits analysis.

Following completion of the subtasks described below, the consultant will complete an initial draft of the impacts and benefits section. The section will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

<b>TASK 14   IMPACTS AND BENEFITS</b>	
<b>Goal of Task</b>	The goal of this task is to quantify the effects of plan and project implementation on the region and to develop appropriate levels of mitigation for any identified negative impacts.
<b>Subtasks</b>	<b>14.1</b> Identify Impacts and Benefits of Plan Implementation <b>14.2</b> Qualitative and Quantitative Assessment of Plan Benefits
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Identification of plan-level impacts and benefits</li> <li>• Identification of project-level impacts, mitigations, and benefits</li> <li>• Set of measurement standards to support qualitative/quantitative plan benefit assessment</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$3,060 <b>Match:</b> none <b>Match sources:</b> n/a

#### **14.1 Identify Impacts and Benefits of Plan Implementation**

This discussion will include consideration of impacts and benefits both within the region and inter-regionally. In the case of project implementation, the data developed for Task 11, Plan and Project Performance, will be utilized to develop quantitative assessment measures wherever possible. Likewise, the outcomes of Task 11 will also be applied to evaluating the impacts and benefits of plan implementation. To the extent feasible, a more detailed project-specific impact and benefit analysis protocol will be developed and included in the IRWMP inclusion and ranking criteria.

#### **14.2 Qualitative and Quantitative Assessment of Plan Benefits**

Whenever project impacts and benefits are identified, a quantitative assessment of those impacts and benefits will be provided wherever possible, and qualitative assessment measures will be supplied if no quantitative measures are available. The PC and MC will provide technical support.

### **TASK 15 TECHNICAL ANALYSIS**

Task 4.1 in the region update section will result in the collation, evaluation, and description of new data developed to support IRWMP preparation. These activities will be summarized in the technical analysis section and a complete bibliography of all new data sources will be included as an appendix. A description of the methods and techniques used to analyze and integrate the technical information and data sets will be provided. The relevance of these materials to PC and stakeholders' understanding of water management issues and complexities will be described.

Following completion of the subtasks described below, the consultant will complete an initial draft of the technical analysis section. The section will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 15   TECHNICAL ANALYSIS	
<b>Goal of Task</b>	The goal of this task is to provide CABY members and stakeholders with a clear understanding of the data that was utilized to support plan development and update.
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>Table summarizing key documents utilized in IRWMP preparation and update</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$4,240 <b>Match:</b> none <b>Match sources:</b> n/a

## TASK 16 REGIONAL AND INTERREGIONAL COORDINATION

**OVERVIEW:** CABY has initiated or participated in several regionally-oriented IRWMP coordination efforts. These activities are considered to be integral to IRWMP implementation activities.

For example, CABY has convened and facilitated meetings with the IRWMP representatives of the DWR Prop 84 Sacramento River Funding Area (SRFA). Prior to completion of the RAP process, this initially consisted of ten representatives; however, following the April 2009 RAP process, specific number and geographic coverage of the regions IRWMP have changed. To date, meetings have been held on a quarterly basis and continue to be well attended by the participants. Discussions have focused on development of collaborative process across IRWM boundaries and on strategies for achieving equitable funding within the mandate for competitive process. This process will continue and is described further in Task 16.1.

This task consists of four main components: (1) convening and participating in SRFA meetings, (2) participating in and supporting Sierra Water Work Group activities, (3) participating in the Strategic Plan for Mercury in the Sacramento River Watershed program, and (4) issue-specific coordination with adjacent IRWMPs.

Following completion of the subtasks described below, the consultant will complete an initial draft of the regional and interregional coordination text. The text will then follow the review and finalization process described in the introduction to the work plan (p. 21) and Task 17, IRWMP Preparation.

TASK 16   REGIONAL COORDINATION	
<b>Goal of Task</b>	The goal of this task is to perpetuate CABY's collaborative relationships with stakeholders, agencies, and organizations within the CABY region. Also to support outreach and coordination with adjacent planning areas, within the Sacramento River hydrologic region.
<b>Subtasks</b>	16.1 Sacramento River Funding Area Coordination 16.2 Sierra Water Work Group Participation 16.3 Strategic Plan for Mercury in the Sacramento River Watershed 16.4 issue-specific coordination with adjacent IRWMPs
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Regular meetings of the SRFA IRWMPs</li> <li>• SRFA-specific agendas, support materials, and post-meeting summaries distributed to meeting participants and posted on CABY website</li> <li>• Participation in Sierra Water Work Group activities</li> <li>• Participation in Strategic Plan for Mercury</li> <li>• Conversations and meetings with key informants and stakeholders in adjacent IRWMPs</li> <li>• Development and posting of memoranda summarizing outcomes of key meetings distributed to PC and posted on CABY website</li> <li>• Integration of outcomes of conversations into CABY project development and IRWMP updated</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$25,220 <b>Match:</b> \$ 11,160 <b>Match sources:</b> Consultant and Sierra Fund

### 16.1 Prop 84 Sacramento River Funding Area Coordination

CABY will continue to provide facilitation and coordination of the Prop 84 Sacramento River Funding Area (SRFA) meetings over the life of the planning grant. The purpose of these meetings is to support intraregional collaboration on projects of mutual concern and benefit as well as continuing a dialogue to address equitable funding within the region through both the planning and implementation grant cycles. Facilitation and support will consist of development of agendas, periodic conversations with IRWM representatives prior to and between meetings, preparation of meeting summary notes, logistics in support of both conference calls and face-to-face meetings, and coordination of intraregional project development activities.

### 16.2 Sierra Water Work Group Participation

The CABY PC has determined that ongoing participation in the Sierra Water Work Group (SWWG) – convened by the Sierra Nevada Alliance (SNA) and the Sierra Nevada Conservancy (SNC)—represents an important opportunity to collaborate on a north-south axis beginning with the Upper Feather IRWM and extending south to the Southern Sierra IRWM. The SWWG will be an important venue for coordination on such issues as mountain meadows, mercury, irrigated lands and 303(d) issues, fisheries, corridors and connectivity, and other issues. The SNA has been leading this effort; however, due to their

limited resources they require additional support to continue this important group. The quality and level of conversation and discussion is such that the time invested to convene and attend the meetings is considered to be integral to implementing the CABY IRWMP.

### **16.3 Strategic Plan for Mercury in the Sacramento River Watershed**

This planning grant cycle provides a valuable opportunity for IRWMPs to communicate and coordinate on broad issues that span multiple IRWMP planning regions. Mercury has emerged as a key issue that affects many IRWM Regions within the Sacramento River Watershed. Coordination around mercury is timely due to pending Total Maximum Daily Load (TMDL) regulatory processes for our region. Inter-IRWMP coordination on mercury will include discussions of goals, objectives, and projects that respond to widespread mercury contamination. These goals, objectives and projects need to be consistent and coordinated across a broad region in order to have measurable benefits. At a minimum, this process will inform the CABY IRWMP update and build our region's capacity to coordinate with surrounding IRWMPs. The importance of mercury as an interregional issue has been highlighted in multiple FERC processes, statewide monitoring indicating high levels of mercury in sport fish in reservoirs, contentious TMDL programs by the Regional Water Quality Control Board, and concerns for wetland management. Coordination across IRWM region boundaries would allow for effective integration of activities around these topics of mutual concern.

CABY is a partner in the inter-regional grant proposal to develop a Strategic Plan for Mercury in the Sacramento River Watershed. That effort, to be led by the Sacramento River Watershed Program, will support the CABY interregional planning efforts by providing a discussion forum with other watershed stakeholders, a strategic plan for prioritizing mercury control projects watershed-wide, and mercury response tools specific to our IRWM planning needs. As a result of this collaborative effort we will develop a common knowledge-base around mercury with our neighbors, which will facilitate collaborative projects that respond to mercury contamination and strengthen inter-IRWMP capacity to address cross-regional issues.

### **16.4 Issue-Specific Coordination with Adjacent IRWMPs**

This Prop 84 planning grant cycle provides a valuable opportunity for IRWMPs to communicate and coordinate on specific topics. This coordination will include discussions of goals, objectives, and projects that could be consistent across all participating IRWMPs. At minimum, this process will inform the CABY IRWMP. Mercury, anadromous fish, water temperature, and water banking and transfers have emerged as key issues that affect all of CABY's neighboring IRWMPs. The importance of these issues has been highlighted through the course of multiple FERC processes that are currently underway, as well as organizational response to regulatory programs (such as Irrigated Lands). Coordination across IRWMP boundaries would allow for effective integration of activities around these topics of mutual concern.

This task includes three activities:

- 1) Convening a series of meetings with targeted stakeholders and representatives from adjacent IRWMPs to discuss mercury, anadromous fish, water temperature, and water banking and transfers. The meetings on the topic of mercury will be coordinated with the activities in Task 16.3.
- 2) Formal attendance of CABY representatives at existing (and/or emerging) public outreach and regulatory compliance forums, workshops, and processes focused on these topics (such as the Delta Tributary Mercury Council and the Yuba Multi-Party Forum).
- 3) Recruiting of additional stakeholders to participate in IRWMP coordination activities.

The purpose of these activities is to provide a forum for discussing issues of mutual concern and identifying options for joint project development.

## TASK 17 IRWMP PREPARATION

**OVERVIEW:** As stated in the introduction, CABY has established a system of review, revision, and finalization for each IRWMP chapter and the plan as a whole. This is described in detail below. In addition, CABY has undertaken ongoing update processes (in addition to those included in this planning grant), starting in 2008, which will be reflected in the final updated IRWMP.

The existing IRWMP did not strictly adhere to the plan standard categories identified in the Prop 50 IRWMP guidelines. Although the plan met all of the standards, the internal organization of the document was developed based on the preferences of the CABY group. As a result, the updates accomplished from 2008 to 2010 were made throughout the IRWMP. As part of the process for updating the IRWMP within the 2011 grant cycle, the CABY PC has again determined that an alternative sequencing of plan standards will better suit CABY's needs.

TASK 17   IRWMP PREPARATION	
<b>Goal of Task</b>	The goal of this task is to prepare a comprehensive update to the existing IRWMP that is fully consistent with applicable program guidelines and fully reflective of the needs and priorities of the CABY region.
<b>Subtasks</b>	17.1 Integrate Updates Accomplished During 2008 through 2011 17.2 Prepare IRWMP Document 17.3 Adopt
<b>Key Deliverables</b>	<ul style="list-style-type: none"> <li>• Graphics, maps, and tables</li> <li>• Draft IRWMP</li> <li>• Final IRWMP</li> <li>• Adopted IRWMP</li> </ul>
<b>Budget</b>	<b>Total funds requested:</b> \$ 75,460 <b>Match:</b> none <b>Match sources:</b> n/a

### **17.1 Integrate Updates Accomplished During 2008 Through 2011**

In 2008, CABY began updating its IRWMP using the process identified in the document. This process consisted of officially requesting new and updated projects from CABY members, ongoing refinement and revisions to the governance process, additional stakeholder recruitment, expanded coordination with adjacent IRWMP regions, and other similar tasks. By early 2009 CABY had completed sufficient work on the IRWMP, both in terms of identification of new projects and clarification of governance to necessitate a formal update to the plan. The plan updates were accomplished by the creation of appendices. This strategy of developing, reviewing, and adopting appendices was utilized because the revised IRWMP guidelines were anticipated to require wholesale changes within the document. It was deemed more efficient to complete those required updates through a rewrite of the plan itself, at which point the appendices could simply be integrated in as part of the update process. In late 2010, CABY staff will create an integrated list of the diverse recommendations included in the various updates. This list will serve as a starting point for integrating the updates into the IRWMP.

Several of the updates have been accomplished in direct response to new standards identified in the Prop 84 IRWM Grant Program Guidelines. The portions of the IRWMP that were updated at the end of 2010 include governance, aspects of integration, preliminary calculations of climate change scenarios, elements of data management, and development of an outline draft financing plan.

In December 2010, a complete list of all recommendations, suggested tasks, and follow-up activities will be prepared. Our first activity will be to distill and refine the list into an implementation action list. This list will be presented to the MC for their consideration.

### **17.2 Prepare IRWMP Document**

A variety of maps and graphics will be created or updated as a result of the tasks in this work plan. These will be integrated into the updated IRWMP. In addition, the format of the IRWMP will likely need to be changed to accommodate the new information developed as a result of the update tasks. CABY staff will take the lead on gathering the maps and graphics, and in some cases will develop the graphics. CABY staff will also format the document and prepare it for final printing and distribution.

As previously stated, IRWMP chapters will be drafted by CABY staff at the close of each task's activities. These draft chapters will then be submitted to the MC, TAC, or relevant sub-committee for review. CABY staff will then revise the chapters to reflect all of the comments received. The revised draft will be submitted to the PC for review and comment.

The PC review will be two-fold. First, members will be encouraged to attend a comment session so that staff can hear directly from individual members and constituencies. Second, members will submit written comments and suggested revisions via email or hard copy. This phased comment strategy has proven to reduce the complexity and conflicting input received when only written comments are solicited. Following receipt of all oral and written comments, staff will revise the draft IRWMP chapter and create a final review draft. This final review draft will be submitted to the MC for any final revisions or refinements. Lastly, staff will submit the final section to the PC for their final approval and adoption.



This sequence has purposely been arranged in such a way that each IRWMP section is drafted and reviewed by the MC, TAC, sub-committee and/or the PC as it is completed. Therefore, at the end of the chapter creation process, it will be necessary to merge these finalized chapters into a single document.

Upon completion of all work plan tasks, and the review process described above, the IRWMP chapters will be assembled. At this point, the graphics, maps, and format will be included, as will any sections of the existing IRWMP that did not need to be updated. This final document will be designed so that it can be printed and distributed in a cost-effective and easy-to-use manner, based on comment received by stakeholders.

A checklist identifying the requirements of each plan standard will be provided to the PC so they will be able to assess the consistency of the document with the plan standards.

### **17.3 Adopt**

As the CABY PC and lead consultant have produced numerous documents under tight timeframes, the PC has expressed confidence that the strategy of sequential review of IRWMP sections as they are completed will lead to the PC adopting the complete IRWMP at their final scheduled meeting of the process (June 2012).

The current CABY MOU, as written and adopted, will serve to perpetuate the CABY MOU-based entity during plan preparation and through plan implementation. However, individual CABY members may decide to amend or update the MOU at their discretion, in which case their adoption of the updated plan would also include adoption of the revised and updated MOU. For CABY members who wish to adopt the plan, but feel no need to amend the MOU, the adoption process will include a simple reconfirmation of their original MOU commitment. In this way, at minimum, the MOU structure that has served the region so well will continue to provide the organizational structure necessary to perpetuate the functioning of the CABY-based organization as the central governance component of the organization.